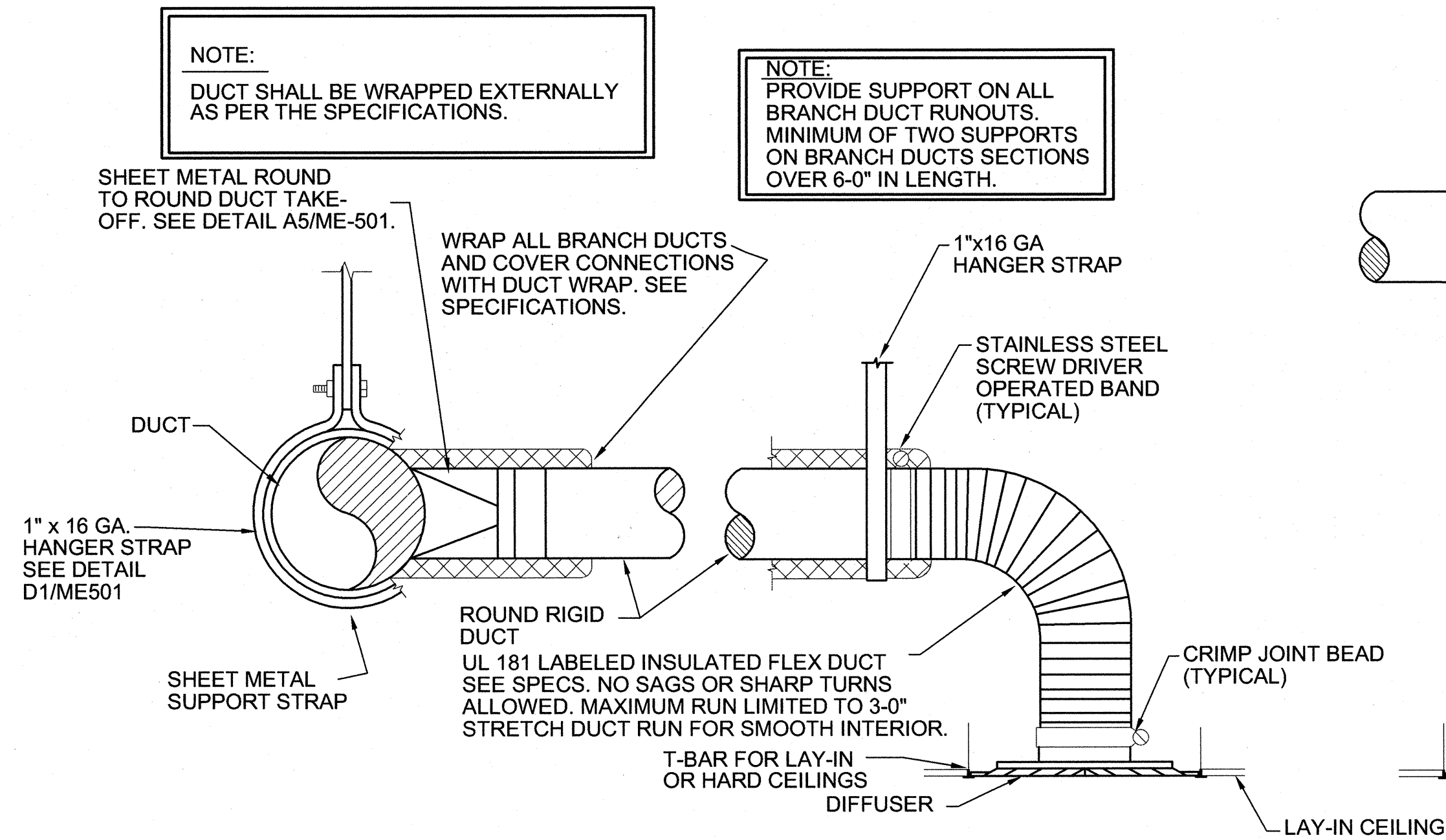
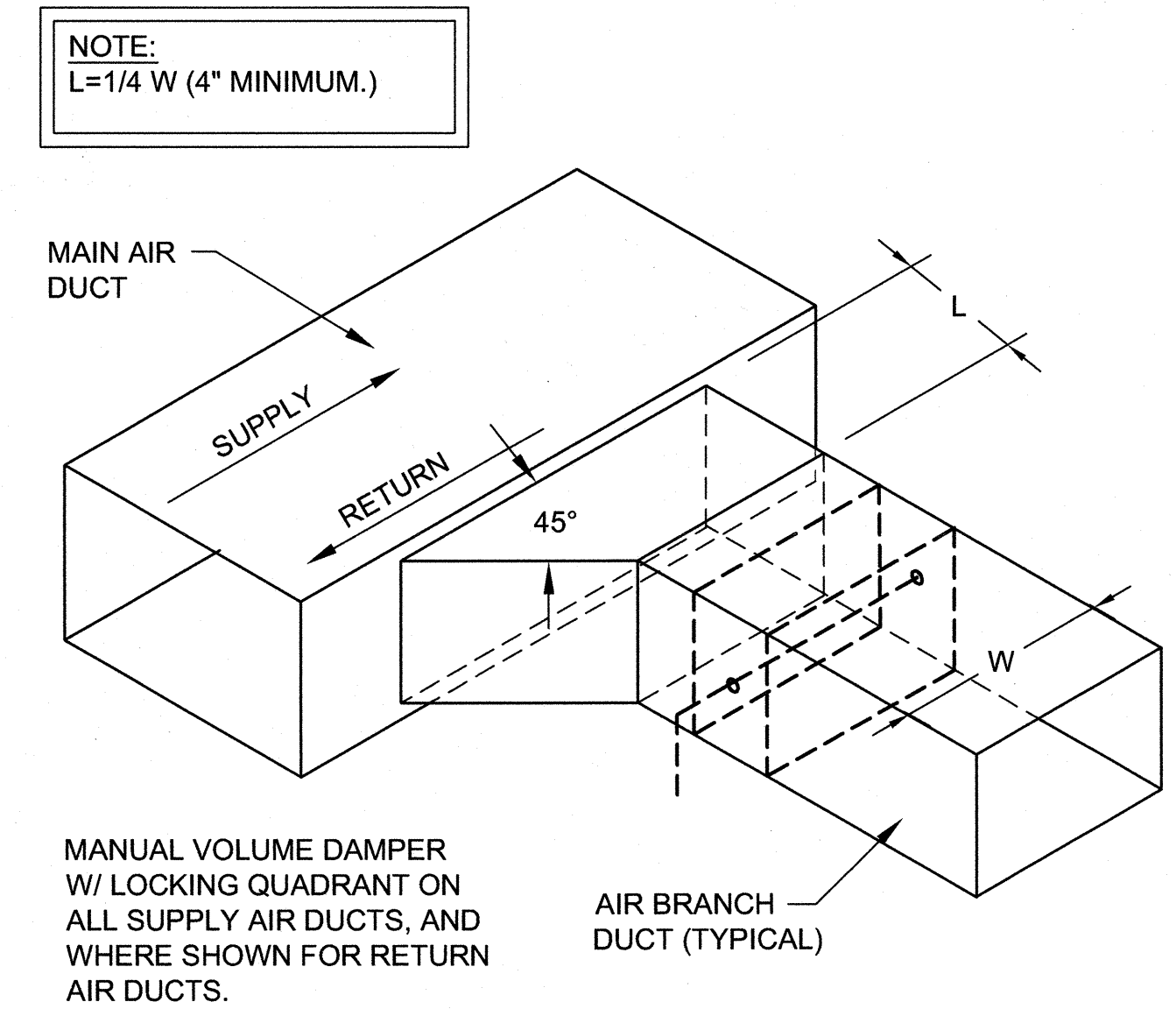


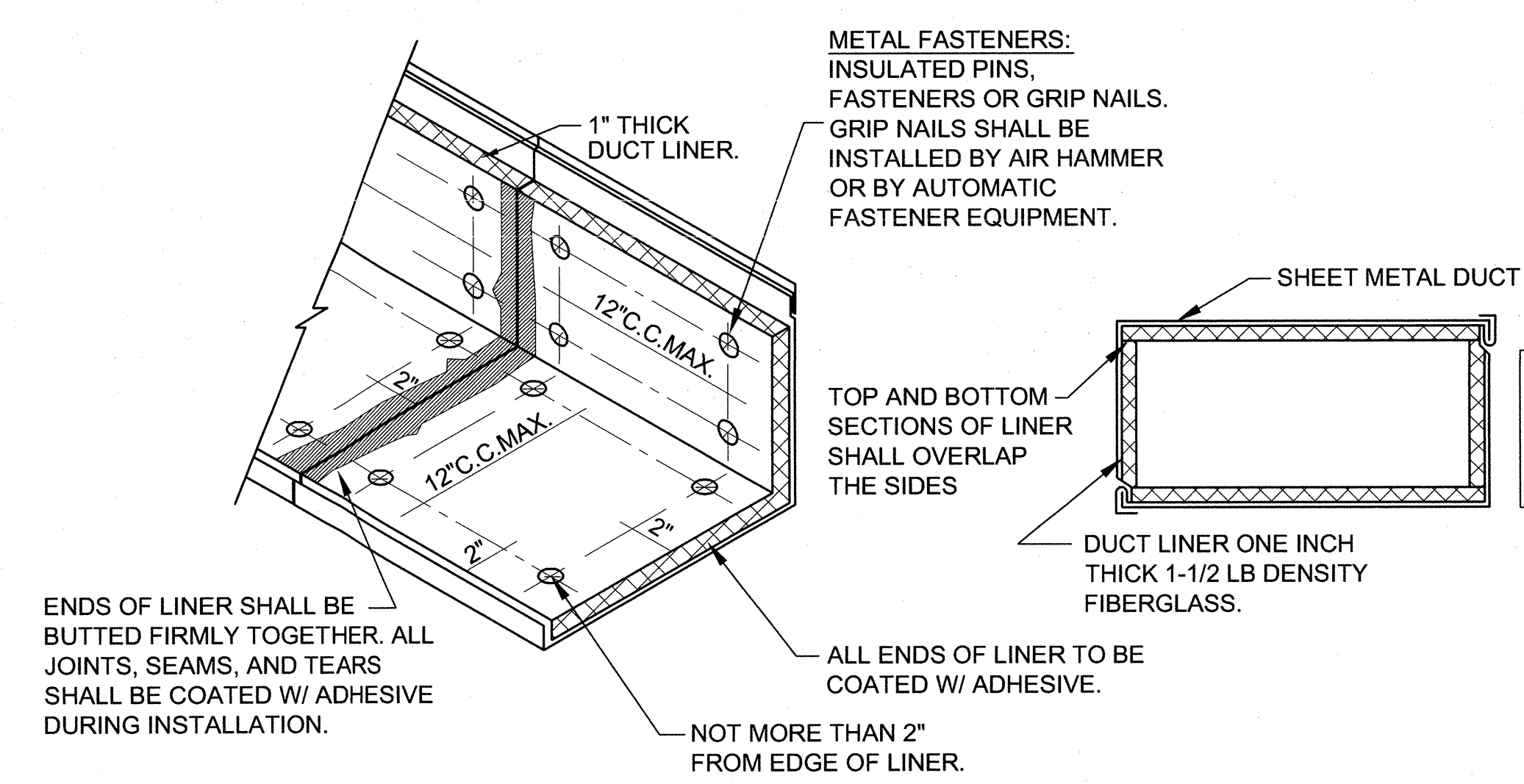
D1 ROUND DUCT SUPPORT DETAIL
SCALE: NONE



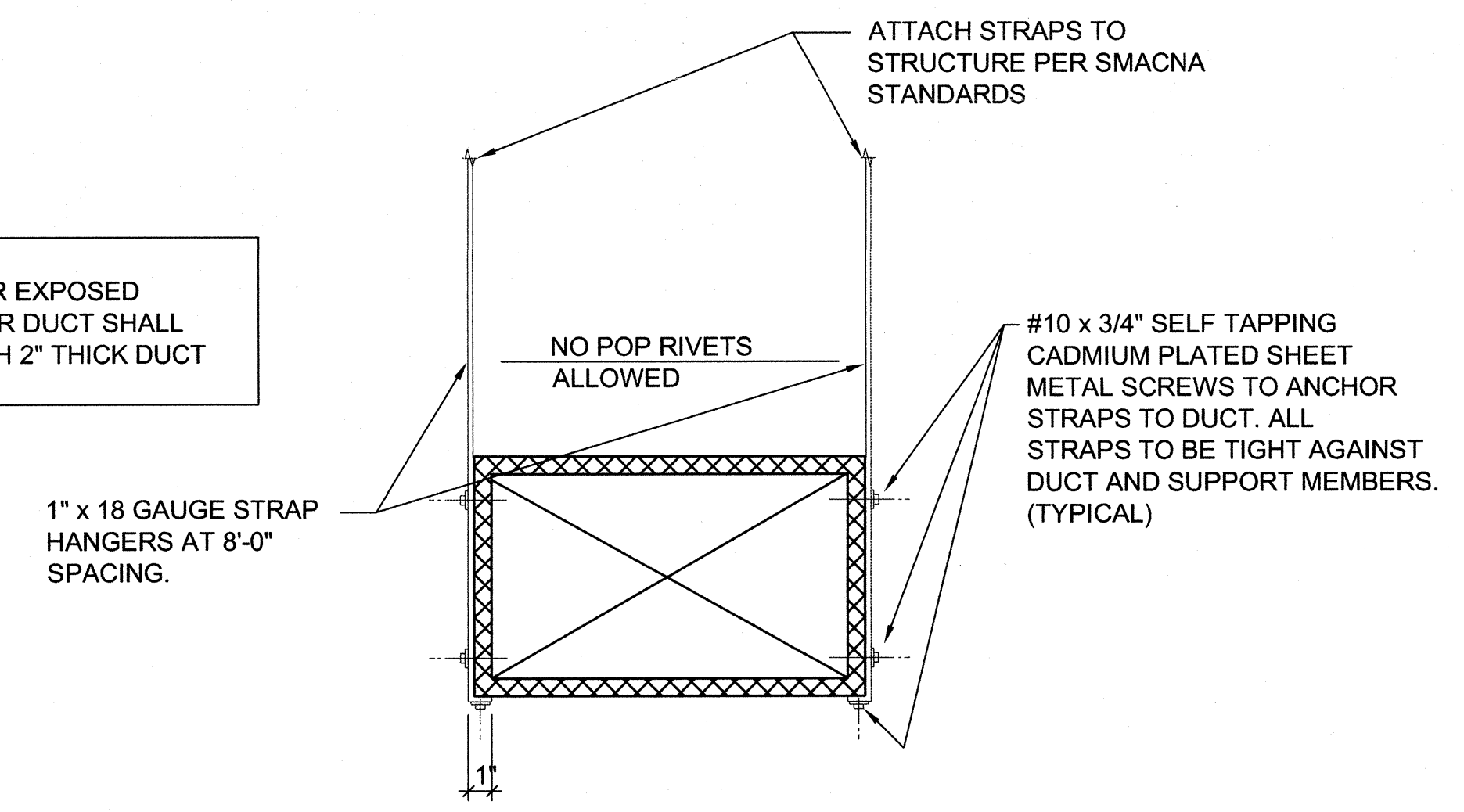
D3 TYPICAL DIFFUSER CONNECTION DETAIL
SCALE: NONE



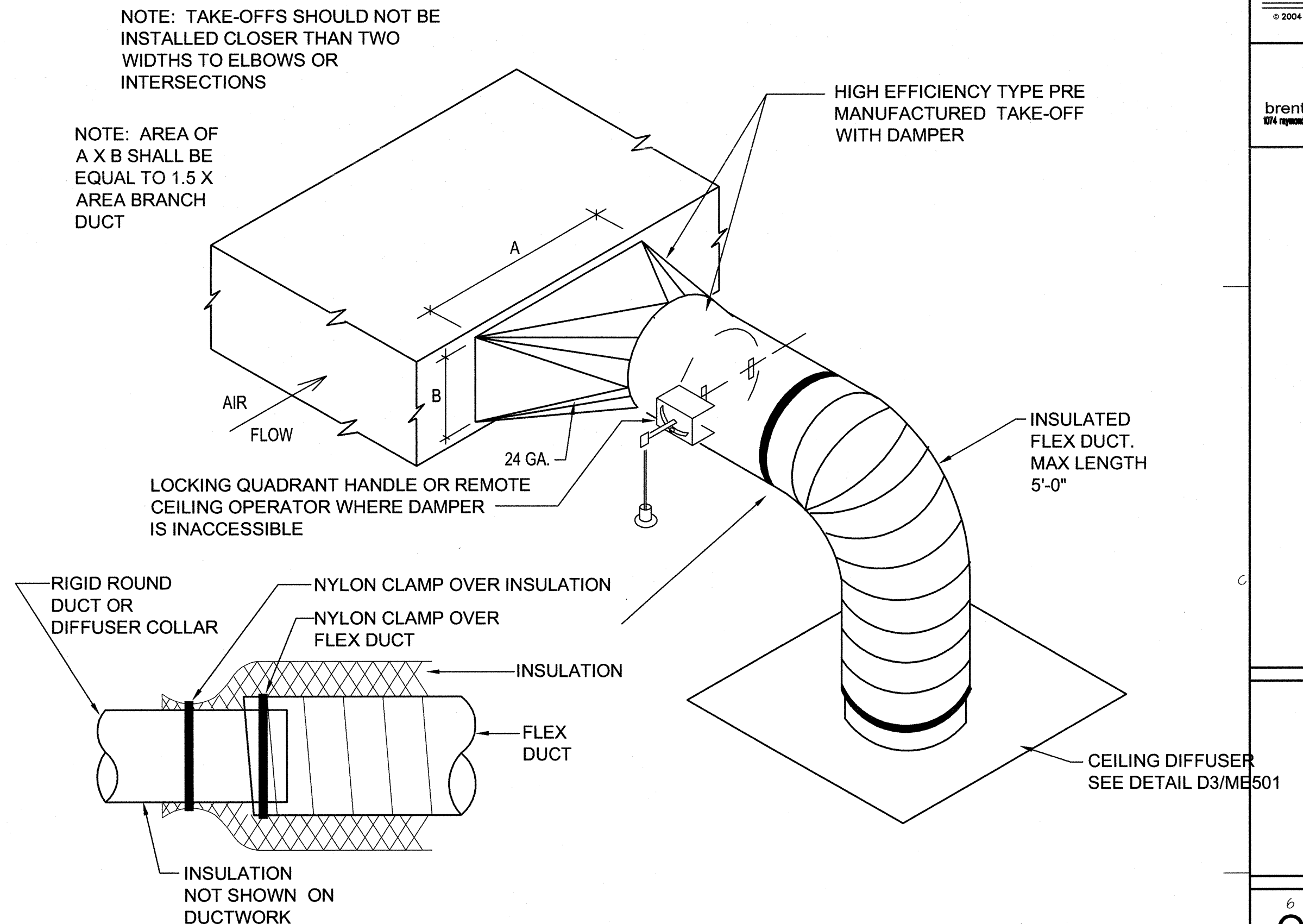
D5 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: NONE



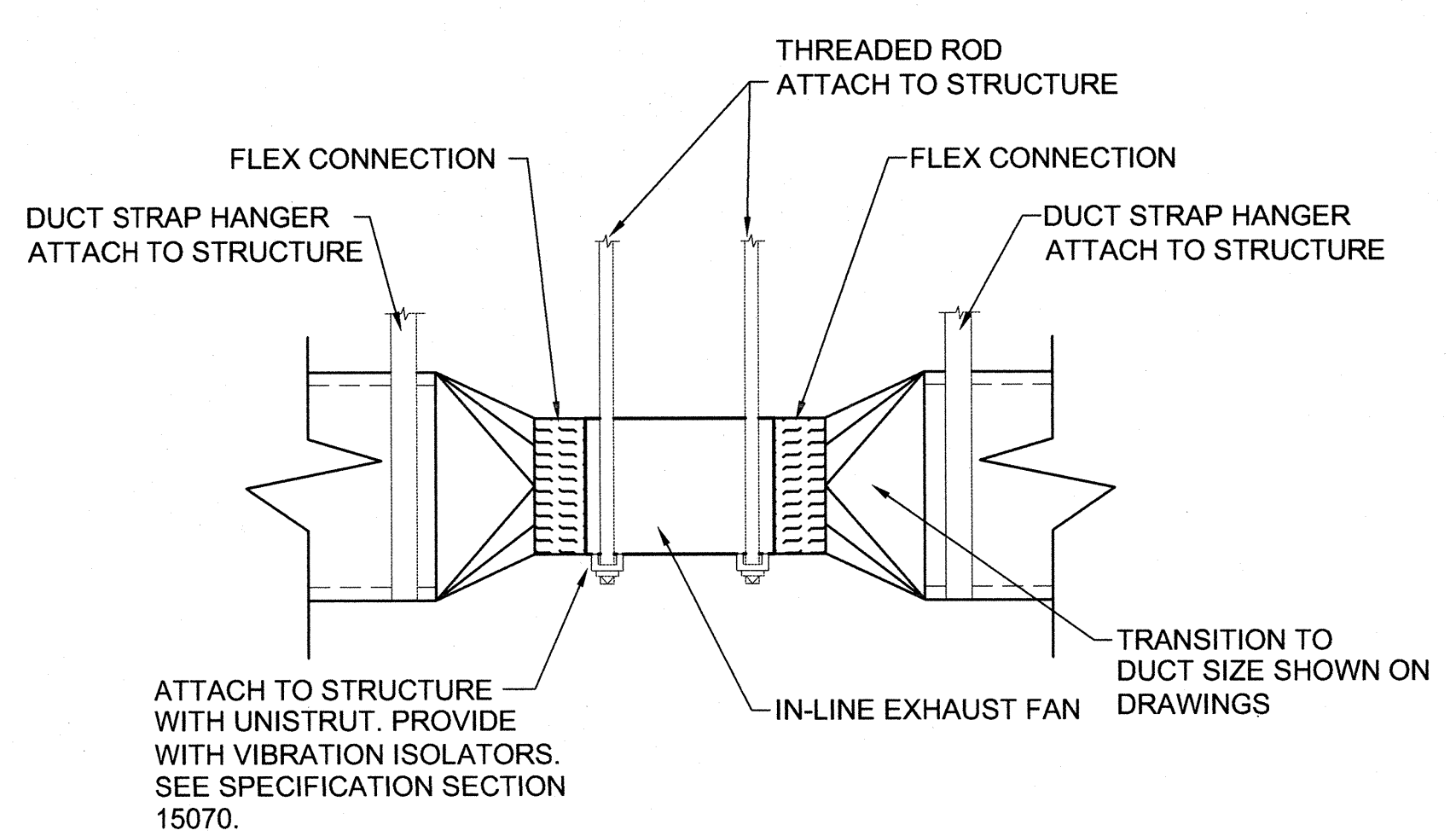
C1 DUCT LINER DETAIL
SCALE: NONE



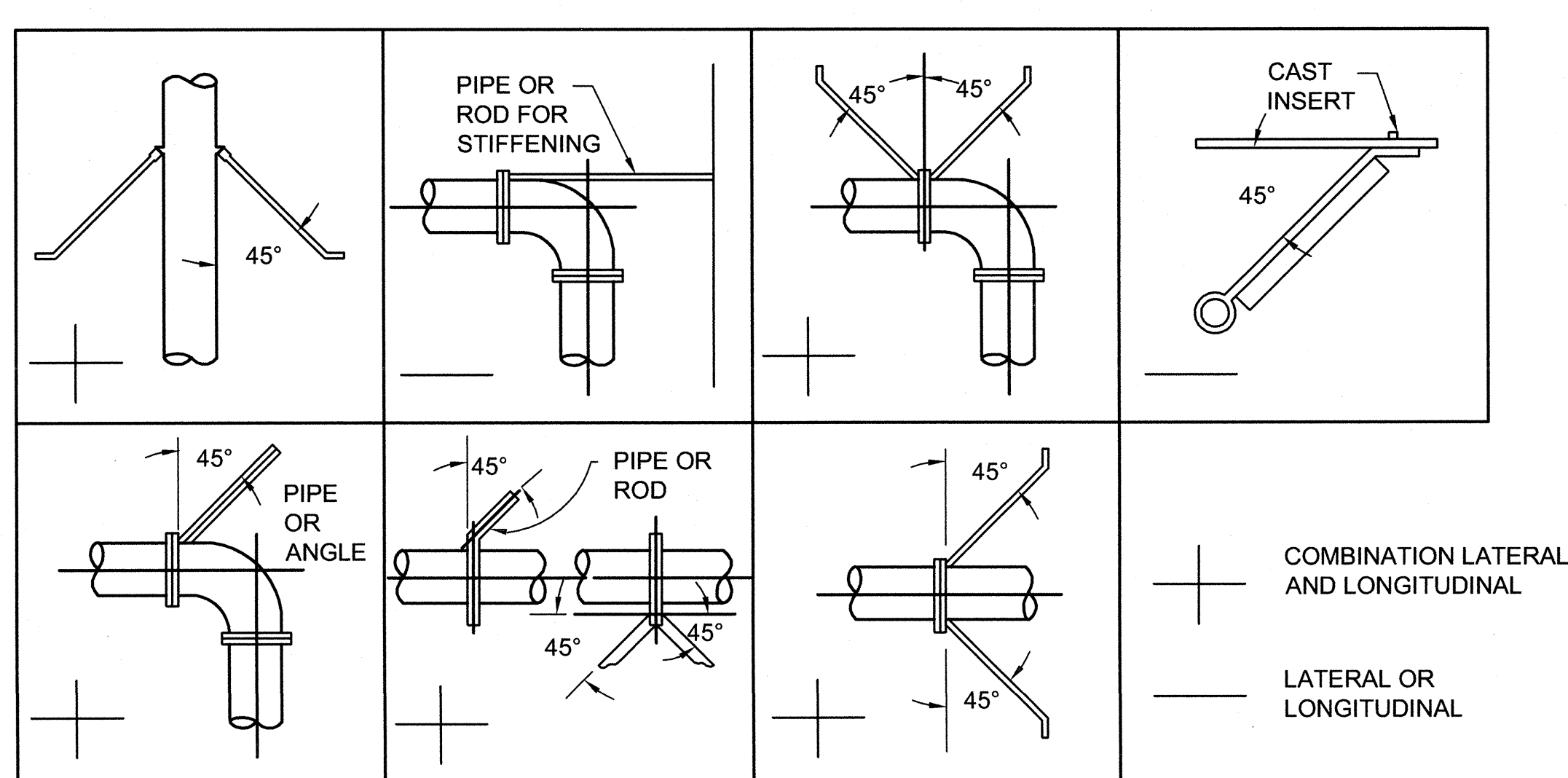
C3 DUCT STRAP HANGER DETAIL
SCALE: NONE



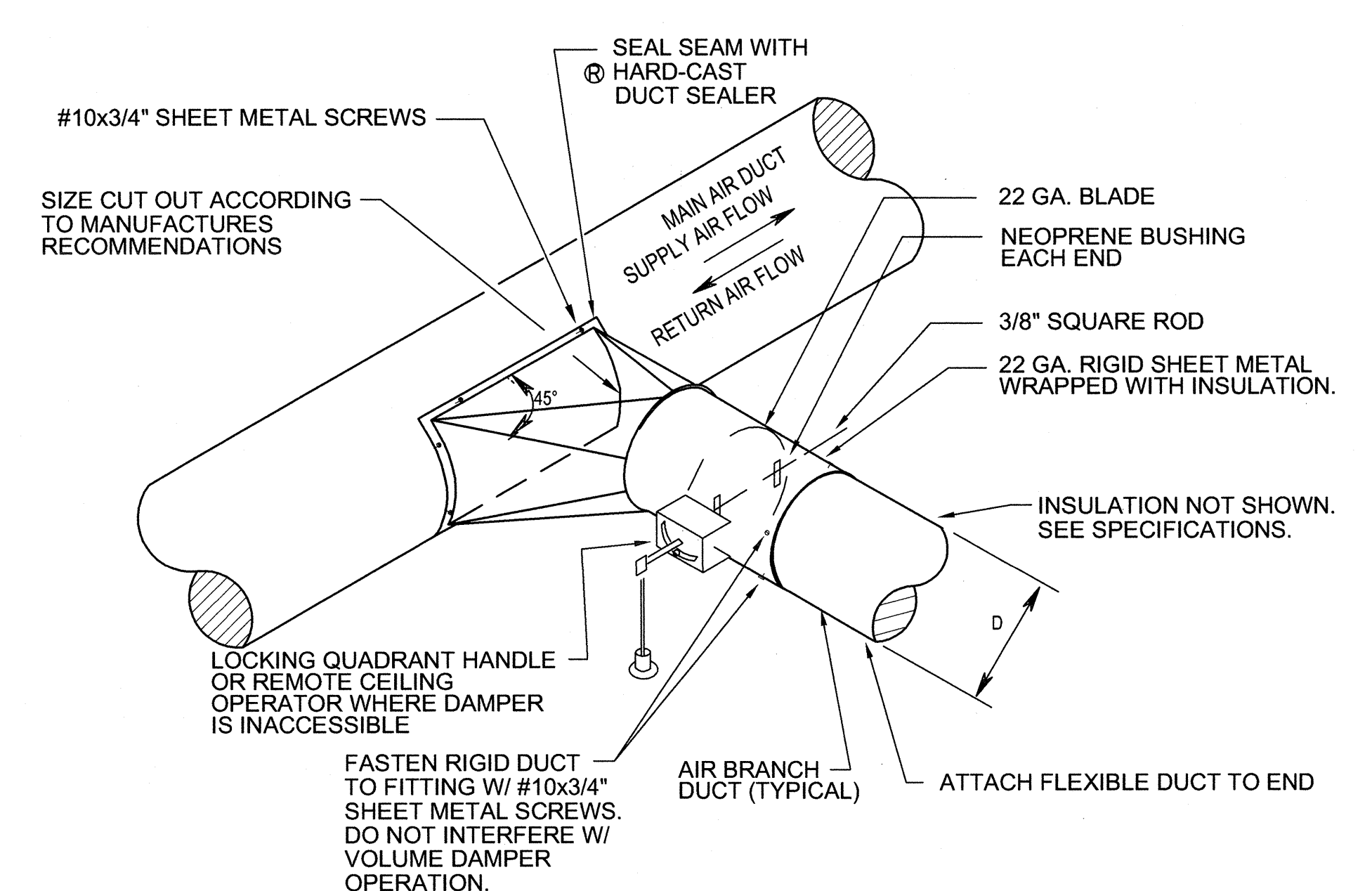
B5 SQUARE TO ROUND TAKE-OFF DETAIL
SCALE: NONE



B3 IN-LINE EXHAUST FAN DETAIL
SCALE: NONE



A3 ROUND DUCTWORK SEISMIC SWAY BRACING DETAILS
SCALE: NONE



A5 ROUND-TO-ROUND DUCT CONNECTION DETAIL
SCALE: NONE

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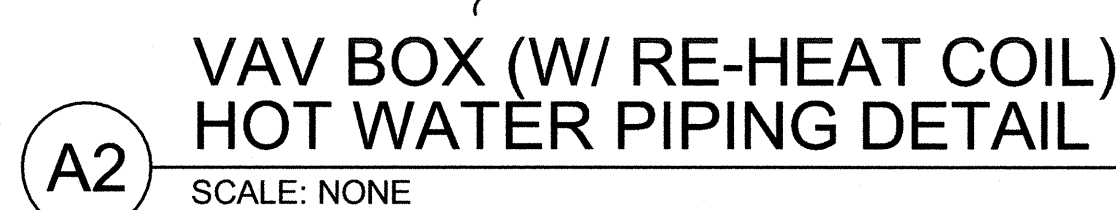
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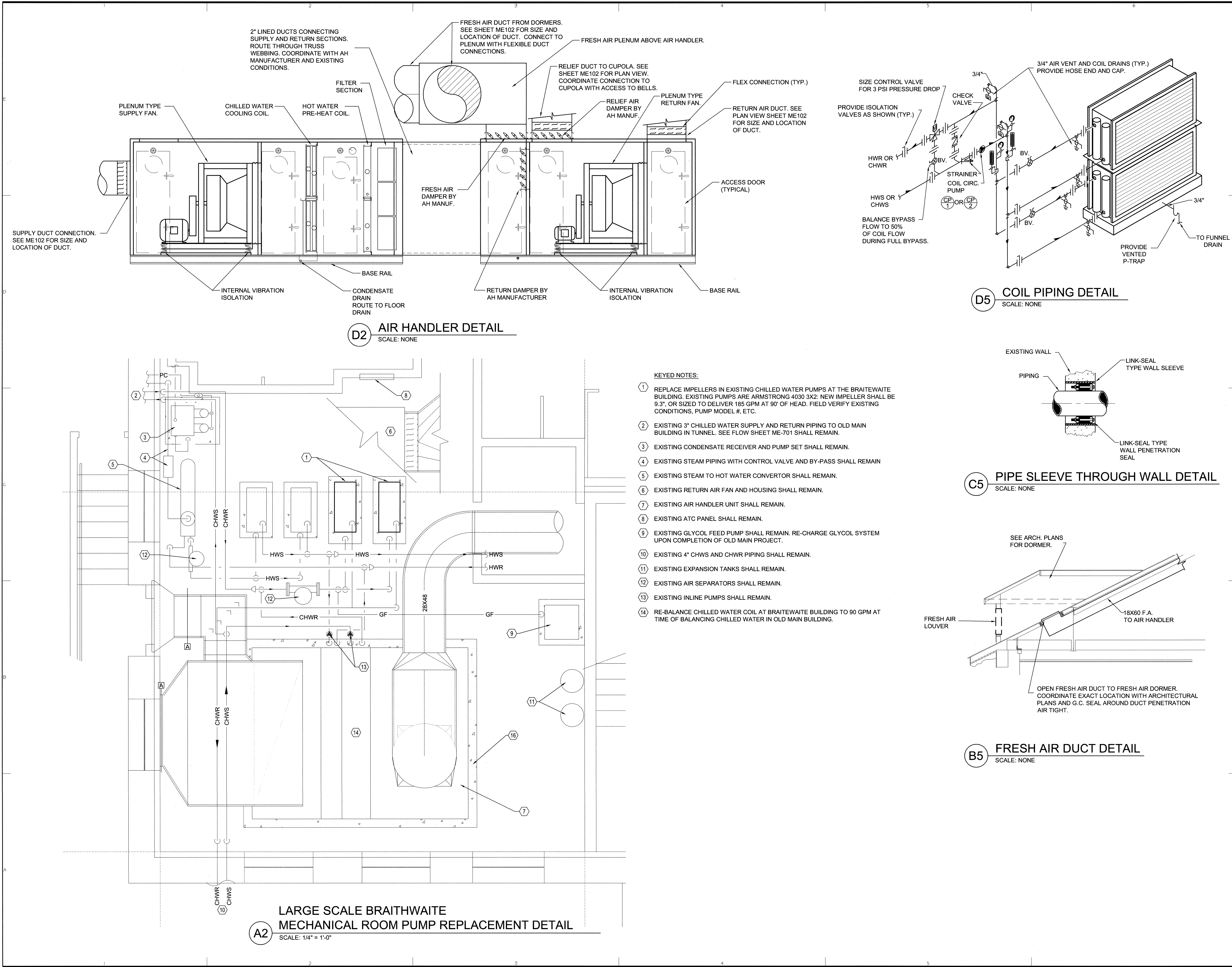
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MECHANICAL DETAILS

ME501



ME502



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MECHANICAL
DETAILS

ME503

AIR HANDLING UNIT SCHEDULE																																						
SYMBOL	LOCATION	COOLING CFM	OA CFM	HEATING CFM	W (IN.)	L (IN.)	H (IN.)	WEIGHT (IN.)	SUPPLY FAN					RETURN FAN					CW COOLING COIL CAPACITY (1)(2)										HOT WATER PREHEAT COIL (2)						MANUFACTURER			
									ESP	HP (3)	VOLT	PHASE	CYCLE	ESP	HP (3)	VOLT	PHASE	CYCLE	MAX AIR PD. IN WG	TOTAL MBH	TONS COOL	EDB	EWB	LDB	LWB	GPM	MAX WATER PD (FT.)	EWI	LWT	MAX AIR PD	MBH	EDB	LDB	GPM (2)		MAX WATER PD (FT.)	WATER INLET TEMP	WATER OUTLET TEMP
AH 1	ATTIC	18,645	4,045 (8)	15,850	(4)	(4)	(4)	(5)	3"	25	208	3	60	1.5"	10	208	3	60	0.56	480	40	80	65	56.5	55	95	8	45	55	0.1	-	60	90	42	10.0	180	152	HAAKON

- ① MINIMUM 4 ROWS.
- ② WATER VELOCITY SHALL BE BETWEEN 1.5 FPS AND 3.0 FPS
- ③ VFD BY DIVISION 16.
- ④ AIR HANDLER SHALL BE INSTALLED AS A RETURN SECTION AND SUPPLY SECTION CONNECTED BY DUCTWORK. SEE DETAIL C2/ME504. RETURN SECTION SHALL NOT EXCEED 150"x91"x88". SUPPLY SECTION SHALL NOT EXCEED 191"x91"x88". BOTH SECTIONS SHALL BE SENT WITH SHIPPING BREAKS FOR EACH COMPONENT.
- ⑤ SUPPLY SECTION SHALL NOT EXCEED 7000 LBS. RETURN SECTION SHALL NOT EXCEED 5000 LBS.
- ⑥ PROVIDE WITH 40" ROUND BELLMOUTH COLLAR OUTLET. SEE DETAIL D2/ME504. COORDINATE EXACT OUTLET LOCATION WITH CONTRACTOR AND FIELD CONDITIONS.
- ⑦ COIL FACE VELOCITY SHALL BE LESS THAN OR EQUAL TO 500 FPM.
- ⑧ COORDINATE WITH ATC TO PROVIDE AIRFLOW MEASURING STATION TO MAINTAIN MINIMUM OUTSIDE AIRFLOW.

EXHAUST FAN SCHEDULE								
SYMBOL	LOCATION	CONTROL TYPE	MIN. C.F.M. ①	STATIC PRESSURE IN. W.G.	POWER HP	VOLTS	MANUFACTURER & MODEL NO.	COMMENTS
<div>EF 1</div>	ATTIC	②	2200	1.25"	1-1/2	208/3/60	PENN INLINER SX155BC ④ ⑤	③

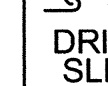
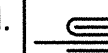
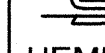
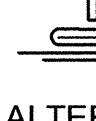

- ① SET BALANCE DAMPERS TO CFM LISTED.
- ② COORDINATE WITH ATC TO OPERATE FAN DURING OCCUPIED SCHEDULE.
- ③ PROVIDE BACKDRAFT DAMPER IN OUTLET OF EXHAUST FAN
- ④ OR EQUAL BY OTHER MANUFACTURER'S IN SPECIFICATION.
- ⑤ MAXIMUM 15 SONES

PUMP SCHEDULE											① ②
SYMBOL	TYPE	GPM	FT HEAD	RPM	SUCTION SIZE	DISCHARGE SIZE ①	HP	MOTOR ELECTRICAL	SIZE	SERVICE	MANUFACTURER & MODEL #
CP 1	IN-LINE CIRCULATOR	31	15	1750	1.5	1.5	1/2	115/1/60	1-1/4 x 5-1/4	COIL CIRC. HOT WATER	BELL & GOSSETT SERIES 60 ③
CP 2	IN-LINE CIRCULATOR	95	15	1750	2	2	3/4	115/1/60	2 x 5-1/4 ④	COIL CIRC. CHILLED WATER	BELL & GOSSETT SERIES 60 ③

- ① PROVIDE REMOVABLE INSULATION KIT AROUND PUMP AND SUCTION.
- ② ALL PUMPS SHALL BE SIZED ON THE FLAT PART OF THE CURVE. SEE DETAIL A2/ME502
- ③ SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
- ④ SIZE FOR 30% PROPYLENE GLYCOL.

COMPUTER ROOM UNIT SCHEDULE																
SYMBOL	CAPACITY		(FANS)						EVAPORATOR COIL ①			ELECTRICAL			MANUFACTURER	
	TOTAL MBH	SENSIBLE MBH	CFM	ESP	HP	NO. FANS	FLA	OPD	AREA SQ. FT.	ROWS	FACE VEL (FPM)	VOLTS	Ø	HZ	MODEL #	③ ④ ⑤ ⑥ ⑦

- ① COND. ENTERING EVAPORATOR 80° DB, 63° WB.
- ② PROVIDE SELF CONTAINED AIR COOLED UNIT. DUCT CONDENSER INTAKE AND DISCHARGE TO MECHANICAL ROOM.
- ③ PROVIDE WITH INTEGRAL SUPPLY AND RETURN GRILLE MOUNTED TO UNIT.
- ④ PROVIDE WITH HOT GAS REHEAT OPTION.
- ⑤ PROVIDE WITH THERMOSTAT AND NECESSARY CONTROLS FOR CENTRAL MONITORING. SEE NOTE 7.
- ⑥ PROVIDE WITH OPTIONAL CONDENSATE PUMP.
- ⑦ PROVIDE WITH NIC CARD WITH MOD BUS RTU INTERFACE. COORDINATE WITH CONTROLS CONTRACTOR.

RECTANGULAR OR SQUARE DUCT CONSTRUCTION SCHEDULE									
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)						
			AT JOINTS						
			MIN. H. IN.						
				RECOM- MENDED GAGE	RECOM- MENDED GAGE	RECOM- MENDED GAGE	RECOM- MENDED GAGE		
				UP THRU 12	26	NONE REQUIRED	1	26	26
13 - 18	24	NONE REQUIRED	1	24	24	24	24		
19 - 30	24	1"x1"x1/8" @ 60 IN	1	-	24	24	24		
31 - 36	22	1"x1"x1/8" @ 60 IN	1	-	-	22	22		

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

LOW PRESSURE ROUND DUCT CONSTRUCTION SCHEDULE				
DUCT DIAMETER IN INCHES	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE

3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

DIFFUSER SCHEDULE										
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	AIR DIST. A%	AIR DIST. B%	SCHEDULE NOTES
<div>D-1 CFM</div>	CEILING	100	6x6	5"Ø	LAY-IN	4-way		25	25	1,2
<div>D-2 CFM</div>	CEILING	200	9x9	8"Ø	LAY-IN	4-way		25	25	1,2
<div>D-3 CFM</div>	CEILING	400	12x12	10"Ø	LAY-IN	4-way		25	25	1,2
<div>D-4 CFM</div>	CEILING	100	6x6	5"Ø	HARD	4-way		25	25	2
<div>D-5 CFM</div>	CEILING	200	9x9	8"Ø	HARD	4-way		25	25	2
<div>D-6 CFM</div>	CEILING	400	12x12	10"Ø	HARD	4-way		25	25	2
<div>D-7 CFM</div>	CEILING	650	15x15	12"Ø	HARD	4-way		25	25	2

- ① PROVIDE LAY-IN CEILING BORDER/MODULE AS REQUIRED. COORDINATE WITH ARCHITECTURAL CEILING PLANS.
- ② MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
- ③ PRICE SMD OR EQUAL IN SPECIFICATIONS.

REGISTER, LOUVER & GRILLE SCHEDULE								
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	MAKE AND MODEL	SCHEDULE NOTES
<div>R-1</div>	CEILING	RETURN	185	8x8	8x8	LAY-IN	PRICE 535	1,3,4,5
<div>R-2</div>	CEILING	RETURN	260	10x10	10x10	LAY-IN	PRICE 535	1,3,4,5
<div>R-3</div>	CEILING	RETURN	375	12x12	12x12	LAY-IN	PRICE 535	1,3,4,5
<div>R-4</div>	CEILING	RETURN	600	16x16	16x16	LAY-IN	PRICE 535	1,3,4,5
<div>R-5</div>	CEILING	RETURN	1100	22x22	22x22	LAY-IN	PRICE 535	1,3,4,5
<div>R-6</div>	CEILING	RETURN	185	8x8	8x8	HARD	PRICE 535	1,3,4,5
<div>R-7</div>	CEILING	RETURN	260	10x10	10x10	HARD	PRICE 535	1,3,4,5
<div>R-8</div>	CEILING	RETURN	375	12x12	12x12	HARD	PRICE 535	1,3,4,5
<div>R-9</div>	CEILING	RETURN	600	16x16	16x16	HARD	PRICE 535	1,3,4,5
<div>R-10</div>	CEILING	RETURN	1100	22x22	22x22	HARD	PRICE 535	1,3,4,5
<div>R-11</div>	SIDEWALL	RETURN	365	16x6	16x6	NA	PRICE LBMR	1,3,4,5
<div>R-12</div>	SIDEWALL	RETURN	550	26x6	26x6	NA	PRICE LBMR	1,3,4,5
<div>R-13</div>	CEILING LINEAR SLOT	RETURN	1000	60"	16"	HARD	PRICE JS (TWO 1" SLOTS)	1,3,4,5
<div>TG-1</div>	CEILING	TRANSFER	375	12x12	12x12	BOTH	PRICE 535	1,3,4,5
<div>TG-2</div>	CEILING	TRANSFER	750	18x18	18x18	LAY-IN	PRICE 535	1,3,4,5
<div>LD-1 CFM</div>	CEILING LINEAR SLOT	SUPPLY	1000	60"	16"	HARD	PRICE JS (TWO 1" SLOTS)	1,3,4,5
<div>S-1 CFM</div>	SIDEWALL	SUPPLY	325	16x6	16x6	NA	PRICE LBMR	1,3,4,5
<div>EG-1 CFM</div>	CEILING	EXHAUST	100	6X6	6X6	HARD	PRICE 535	1,3,4,5
<div>EG-2 CFM</div>	CEILING	EXHAUST	185	8x8	8x8	HARD	PRICE 535	1,3,4,5
<div>EG-3 CFM</div>	CEILING	EXHAUST	450	14x14	14x14	HARD	PRICE 535	1,3,4,5
<div>L-1</div>	LOUVER	FRESH AIR	9500	108"x44"	NA	NA	RUSKIN ELF811S	2,3

REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTE S:

- ① MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
- ② PROVIDE WITH BIRD SCREENS, AND KYNAR FINISH WITH COLOR BY ARCHITECT..
- ③ SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- ④ FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
- ⑤ PROVIDE TRANSITION TO DUCT SIZE SHOWN ON PLANS.

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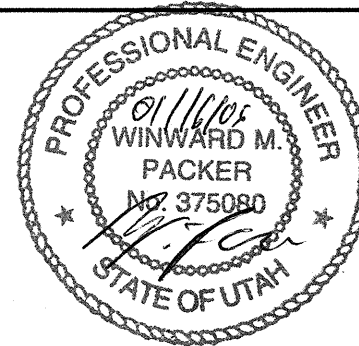
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MECHANICAL
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ME601

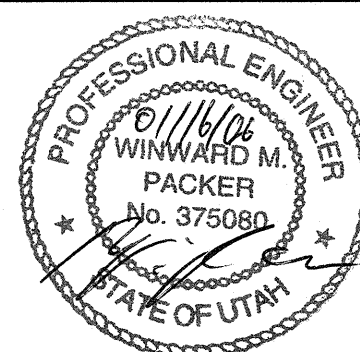
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ME602

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EL101	LIGHTING PLAN-MAIN LEVEL
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EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	NO. SETS	WIRING	OCPD	REF. NOTES	REMARKS
CP-1	CIRCULATION PUMP	5 HP	120	1	9.80	3/4"	1	2	12	CB 20	4A
CP-2	CIRCULATION PUMP	7.5 HP	120	1	13.80	3/4"	1	2	12	CB 25	4A
CRU-1	COMPUTER ROOM UNIT	8.7 HP	208	1	12.8	3/4"	1	2	12	CB 20	2A
EF-1	EXHAUST FAN	1.5 HP	208	3	8.60	3/4"	1	3	12	CB 15	7A
RF-1	RETURN FAN	10 HP	208	3	30.80	3/4"	1	3	6	CB 60	9A
RP-1	RECIRCULATION PUMP	4.4 FLA	120	1	4.40	3/4"	1	2	12	CB 20	4A
SP-1	SUMP PUMP	1 1/2 HP	120V	1	1"	1"	1	3	12	CB 110	9A
SF-1	SUPPLY FAN	25 HP	208	3	74.80	1-1/4"	1	3	3	CB 110	9A
WH-1	WATER HEATER	15 KW	208	3		1"	1	3	6	CB 60	2A

NOTES:

- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- BREAKER IN ENCLOSURE
- MANUAL STARTER W/THERMAL OVERLOAD
- MAGNETIC STARTER
- MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
- MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
- MAGNETIC STARTER/BREAKER COMBINATION
- VARIABLE FREQUENCY DRIVE
- REDUCED VOLTAGE STARTER
- DIRECT CONNECTION
- RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC
- TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE

A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16

B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16

C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16

D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

OVER CURRENT PROTECTIVE DEVICES

CB = CIRCUIT BREAKER - THERMAL MAGNETIC

FN = FUSE - NON INDUCTIVE LOAD

FI = FUSE - INDUCTIVE LOAD

MO = MAGNETIC ONLY CIRCUIT BREAKER

FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A1	RECESSED 2 X 4 INDIRECT, GRID MOUNT, DUAL SWITCHING WITH CENTER PERFORATED BASKET	LITHONIA 2AV-G-3-32-MDR-120-GLR	120	(3) F032/835/XPS/ECO
A2	RECESSED 2 X 2 INDIRECT, GRID MOUNT WITH CENTER PERFORATED BASKET	LITHONIA 2AV-G-2-CF55-MDR-120-GLR	120	(2) FT55W/ZG11-35K
A3	RECESSED 2X2 INDIRECT FLANGE MOUNT WITH PERFORATED BASKET WITH LOUVER	LITHONIA 2AV-G-2-CF55-MDR-120-GLR-DGA	120	(2) FT55W/ZG11-35K
A4	RECESSED 2 X 4 INDIRECT, FLANGE MOUNT WITH CENTER PERFORATED BASKET	LITHONIA 2AV-G-3-32-MDR-120-GLR-1/3-DGA	120	(3) F032/835/XPS/ECO
B1	RECESSED 2 X 4 LENSED TROFFER, GRID MOUNT	LITHONIA 2SP8-F-3-32-120-1/3-GLR-A12125	120	(3) F032/835/XPS/ECO
B2	RECESSED 2 X 4 LENSED TROFFER, FLANGE MOUNT	LITHONIA 2SP8-F-3-32-120-1/3-GLR-A12125	120	(3) F032/835/XPS/ECO
DF1	8" COMPACT FLUORESCENT DOWNLIGHT VERTICAL LAMP, CLEAR DIFFUSE FINISH	LITHONIA AFV-42TRT-8-AR-LD-120	120	(1) CF42DT/E/N/835
DF2	SAME AS DF1 EXCEPT ADD DIMMING BALLAST	LITHONIA AFV-42TRT-8-AR-LD-120	120	(1) CF42DT/E/N/835
P1	PENDANT BOWL WITH PAINTED ROLLED TRIM RING 3" DIAMETER, SINGLE STEM SEE PLANS FOR NON-STANDARD STEM LENGTHS AND OVERALL HEIGHT (VARIES)	SPI RP-1004-F-8F40/2F40-120-PT-F-SAV OAH XX	120	(6) FT40W/ZG11-35K
P2	SURFACE MOUNT FIXTURE TO MATCH P1	SPI RIC 1002-2F38-120-PT-F TRIM RING, STEM AND CANOPY IS STANDARD PAINT FINISH BY ARCHITECT	120	(9) FT39W/ZG11-35K
P3	PENDANT BOWL WITH PAINTED ROLLED TRIM RING 4" DIAMETER, SINGLE STEM SEE PLANS FOR NON-STANDARD STEM LENGTHS AND OVERALL HEIGHT	SPI RP1006-8F40/3F40-120-PT-F-SAV OAH XX	120	(9) FT40W/ZG11-35K
R	JELLY JAR W/ GUARD, FLUORESCENT LAMP, WALL MOUNTED	RIG-A-LITE: CVP42272GOW	120	(1) CF42DT/E/N/835
S	FLUORESCENT STRIP LIGHT	LITHONIA C-232-120-GLR-CSMR-WG-GLR	120	(3) F032/835/XPS/ECO
V	VIDEO CONFERENCING FIXTURE	ELP 2558RXT-TB	120	(2) FT55W/ZG11-35K
W	6" DOWNLIGHT, WALL WASH	LITHONIA AFW-1/42 TRT-ADJ	120	(1) CF42DT/E/N/835
X1	SINGLE FACE EXIT LIGHT, LED, UNIVERSAL MOUNT	LITHONIA LES1G-120/277	120	LED INCLUDED
X2	DOUBLE FACE EXIT LIGHT, LED, UNIVERSAL MOUNT	LITHONIA LES2G-120/277	120	LED INCLUDED

LIGHT FIXTURE ABBREVIATION SCHEDULE

A.F.F.	ABOVE FINISHED FLOOR
WALL/CLG	WALL MOUNT AT CORNER OF WALL AND CEILING
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED

LIGHT FIXTURE GENERAL NOTES

- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
- CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

BIDDING REQUIREMENTS

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

PRIOR APPROVAL REQUIREMENTS

- PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
- IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
- PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
- SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

LIGHTING SHOP DRAWING REQUIREMENTS

- REFER TO SPECIFICATIONS 16001 AND 16510.
- MUST INCLUDE BALLAST AND LAMP OUT SHEETS.
- LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
- COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
- CUT SHEETS MUST BE STAMPED BY THE FACTORY REPRESENTATIVE'S COMPANY NAME.
- VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM I.E. ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
- PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
A.F.F.	ABOVE FINISH FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AM	AMPERE
AMP	AMPERE
ANN	ANNUNCIATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BFG	BELOW FINISH GRADE
CAB	CABINET
CATB	COMMUNITY ANTENNA TELEVISION
CKT	CIRCUIT
CLG	CEILING
CNTR	CONTRACTOR
C.O.	CONDUIT ONLY
CRT	COMPUTER TERMINAL (CATHODE RAY TUBE)
CT	CURRENT TRANSFORMER
C/W	COMPLETE WITH
DB	DECIBEL
DWG	DRAWING
EG	EMERGENCY GENERATOR
EMT	ELECTRICAL METALIC TUBING
EX	EXPOSURE
FACP	FIREALARM CONTROL PANEL
FT	FOOT
OND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HP	HORSE POWER
HZ	HERTZ
IMT	INTERMEDIATE METALIC CONDUIT
ISO	ISOLATED GROUND
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KVAR	KILOVARS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MNF	MANUFACTURER
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MB	MAIN BUS
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILLS
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MT	MOUNTING
MTR	MOTOR
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFAC. ASSOC.
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOC.
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
C & Y	OUTSIDE SCREW & YOKE (FIRE SPRINKLER RISER)
PB	PUSHBUTTON
PF	POWER FAILURE
PFR	PHASE FAILURE RELAY
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
RECEP	RECEPTACLE
REQ	REQUIREMENT
RLA	RATED LOAD AMPS
SE	SERVICE ENTRANCE
SPEC	SPECIFICATIONS
SPKR	SPEAKER
SS	SELECTOR SWITCH
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TP	TYPICAL
UTP	UTAH POWER
V	VOLT (KV=KILOVOLT)
VAR	VOLT-AMPS/REACTIVE
VM	VOLT METER
W	WATTS
W/O	WITHOUT
WP	WEATHERPROOF
WTR	WATTHOUR METER
XFER SW	TRANSFER SWITCH
XFER	TRANSFER
1P	SINGLE-PHASE
2P	TWO-PHASE
3P	THREE-PHASE
4P	FOUR-PHASE
Ø	PHASE

GENERAL NOTES

- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACKSPASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF PER THE OWNER'S DIRECTIONS.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO TOP LINE OF THE BOX FROM THE FINISHED FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
- HEAVY DUTY
- HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
- COORDINATE WITH SHOP DRAWINGS.
- SUBSCRIPT DENOTES NEMA CONFIGURATION.
- HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISHED FLOOR.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
—	TWO CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
—	THREE CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
—	CONDUIT RUN CONCEALED IN WALL OR CEILING		
—	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
—	CONDUIT UP		
—	CONDUIT DOWN		
—	CONDUIT SUB LOCATION		
—	CABLE TRAY	AS NOTED	
—	CEILING LIGHT FIXTURE	CEILING	1.
—	WALL LIGHT FIXTURE	AS NOTED	1.
—	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
—	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
—	AREA LIGHT POLE AND FIXTURE	CONCEALED BASE	SEE DETAIL
—	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
—	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
—	SINGLE POLE SWITCH	+4'-0"	2.
—	SINGLE POLE SWITCH	+4'-0"	4. 2.
—	THREE-WAY SWITCH	+4'-0"	2.
—	FOUR-WAY SWITCH	+4'-0"	2.
—	KEY OPERATED SWITCH	+4'-0"	2.
—	SWITCH WITH PILOT LIGHT	+4'-0"	2.
—	VARIABLE INTENSITY SWITCH	+4'-0"	2.
—	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.
—	OCCUPANCY SENSOR	CEILING	
—	OCCUPANCY SENSOR	+4'-0"	2.
—	DUPLEX RECEPTACLE	+16"	11.
—	DUPLEX RECEPTACLE		9.
—	ELECTRIC WATER COOLER RECEPTACLE		SEE DETAIL
—	WEATHERPROOF RECEPTACLE	+24"	2.
—	ISOLATED GROUND RECEPTACLE	+16"	11.
—	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16"	9. 11.
—	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16"	11.
—	FOURPLEX RECEPTACLE	+16"	9. 11.
—	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16"	11.
—	FLOOR OUTLET WITH ZDA DEVICE	FLOOR	
—	MULTIPLE SERVICE FLOOR BOX	FLOOR	
—	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11.
—	PLUGMOLD	+4" OR AS NOTED	
—	DATA OUTLET - 6 PORTS (2-GANG)	+16"	11.
—	DATA OUTLET - 2 DATA PORTS	+16"	11.
—	TELEPHONE OUTLET - 1 VOICE, 1 DATA PORT	+16"	11.
—	DATA OUTLET - 4 DATA PORTS	+16"	11.
—	TELEPHONE OUTLET	FLOOR	
—	JUNCTION BOX ("I" IN FLOOR)	AS NOTED	
—	MOTOR OUTLET	TO SUIT EQUIP	
—	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
—	TIME CLOCK	+5'-0"	2.
—	PUSHBUTTON	+4'-0"	2.
—	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
—	FUSED DISCONNECT SWITCH	+5'-0"	5.
—	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
—	MAGNETIC STARTER	+5'-0"	7.
—	VARIABLE FREQUENCY DRIVE	+6'-6"	
—	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
—	PANEL BOARD	TOP AT +6'-0"	
—	MAIN DISTRIBUTION PANEL		
—	TELEPHONE TERMINAL BOARD		
—	CLOCK OUTLET	+7'-6"	8.
—	BELL	+7'-6"	
—	CHIME	+7'-6"	
—	FIRE ALARM MANUAL STATION	+4'-0"	2.
—	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
—	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
—	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
—	SMOKE DETECTOR	CEILING	
—	DUCT SMOKE DETECTOR	MTD. IN DUCT	
—	HEAT DETECTOR	CEILING	
—	FIRE/SMOKE DAMPER		
—	DOOR HOLDER	AS NOTED	
—	FLOW SWITCH		
—	TAMPER SWITCH		
—	WATER FLOOD INDICATOR		
—	FIRE ALARM RELAY		
—	FIRE ALARM CONTROL MODULE		
—	FIRE ALARM MONITOR MODULE		
—	FIRE ALARM STROBE	+6'-8"	6.
—	SECURITY MOTION DETECTOR		
—	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
—	VOLUME SYSTEM SPEAKER	+8'-0" OR AS NOTED	
—	SOUND SYSTEM	+4'-0"	2.
—	MICROPHONE OUTLET	+16"	11.
—	MICROPHONE FLOOR OUTLET	FLOOR	
—	MICROPHONE CEILING OUTLET	CEILING	
—	SOUND EQUIPMENT CABINET	CIRCUIT TO 120V	
—	ARCHITECTURAL ROOM NUMBER		
—	GENERATOR ANNUNCIATOR		
—	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
—	EQUIPMENT NUMBER		

COOPER ROBERTS SIMONSEN ARCHITECTURE

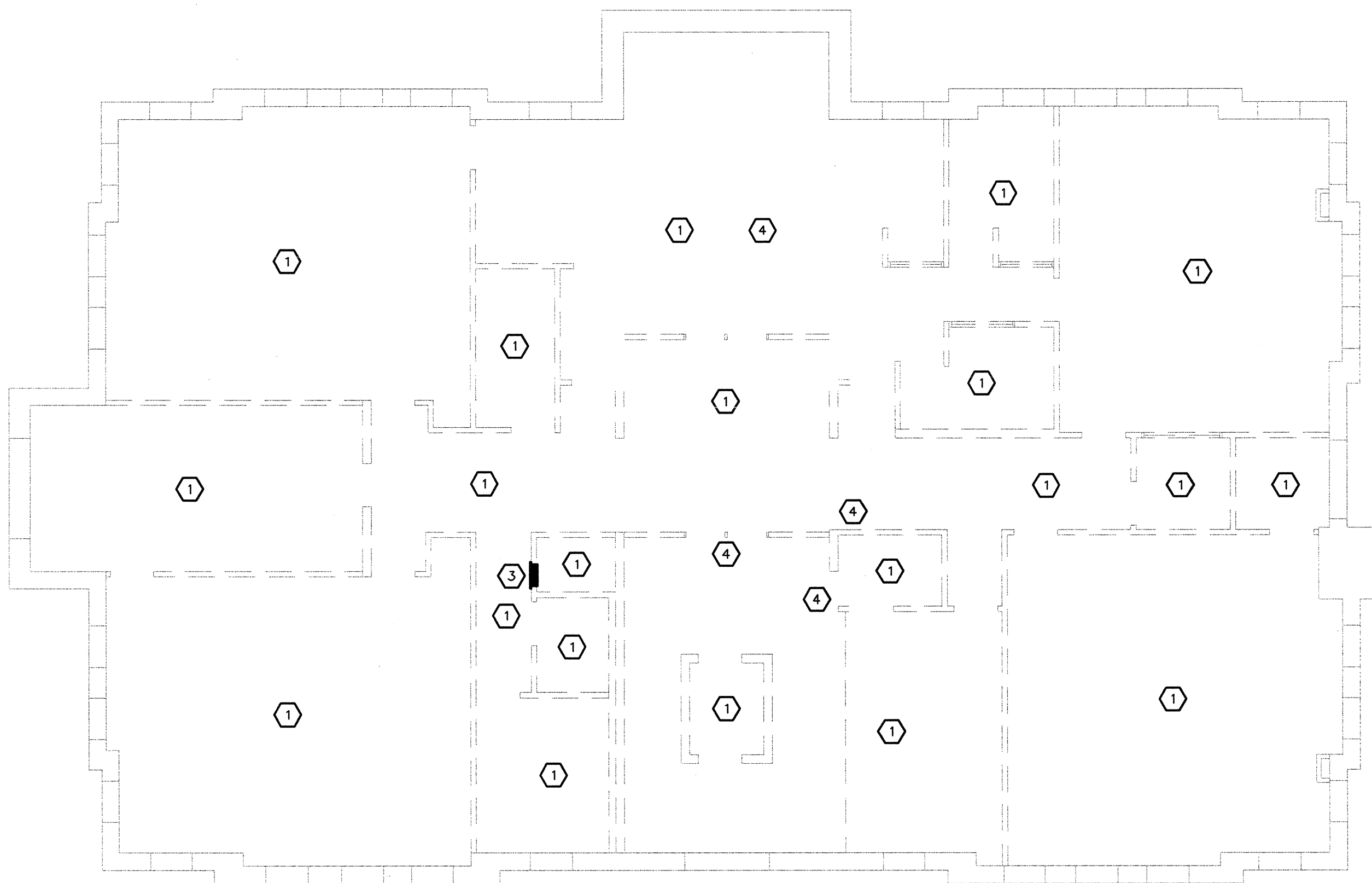
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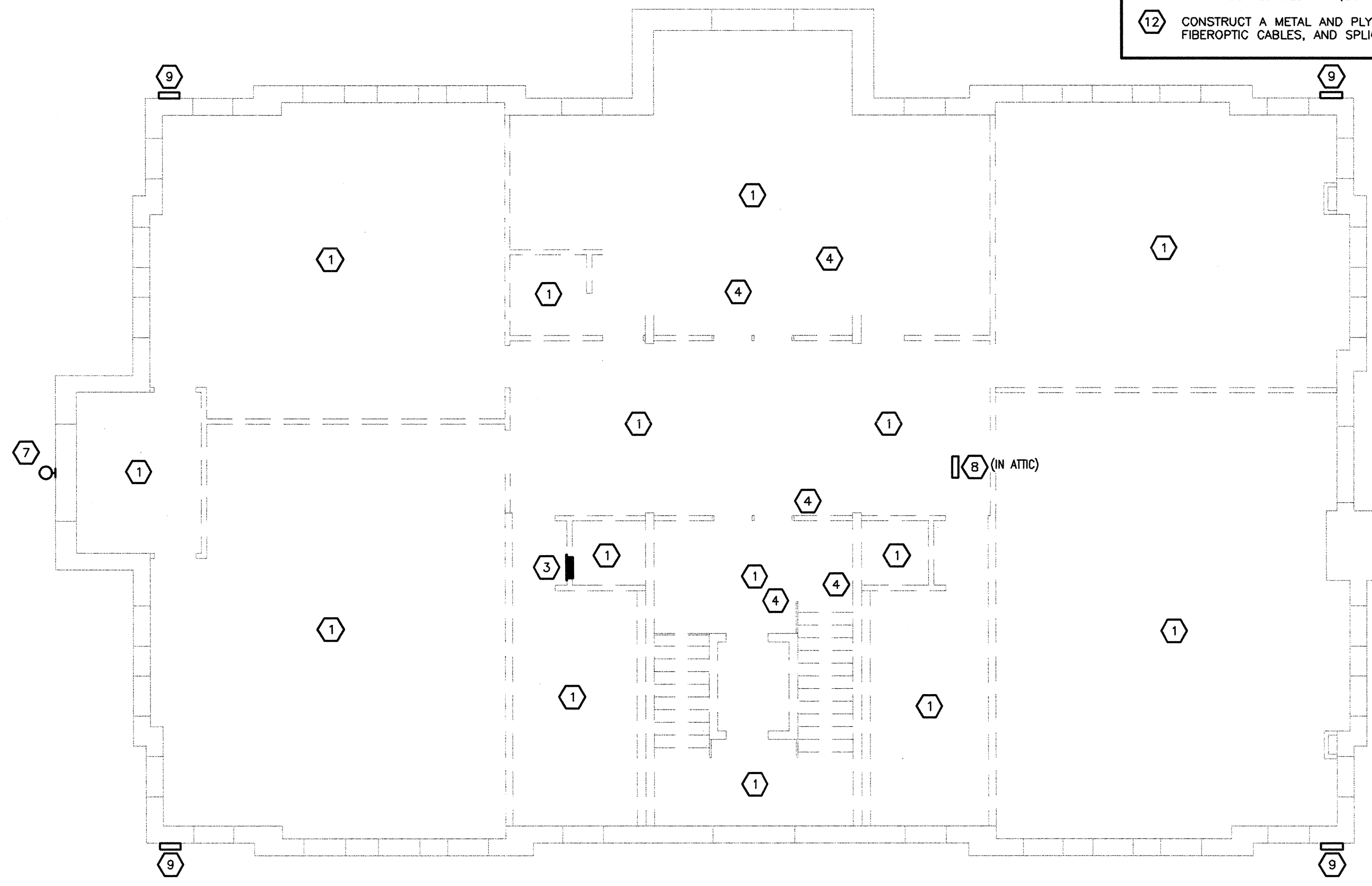
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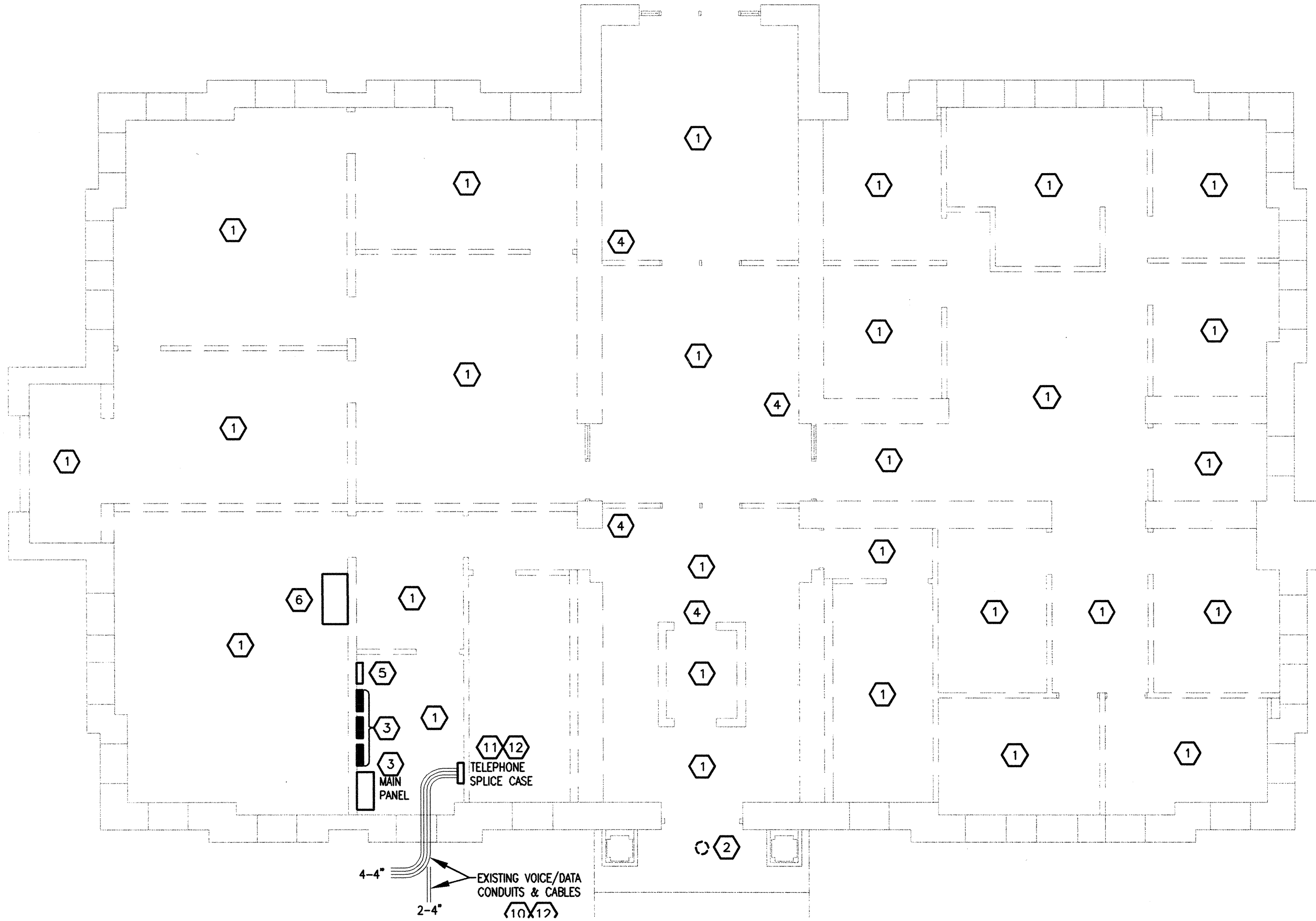
- SHEET KEYNOTES**
- 1 REMOVE AND DISPOSE OF ALL EXISTING LIGHT FIXTURES, DISCONNECTS, WIRING DEVICES. REMOVE ALL EXISTING WIRING AND CONDUIT (EXCEPT CONDUIT CONCEALED IN MASONRY WALLS OR BURIED CONDUIT).
 - 2 CAREFULLY REMOVE EXISTING PENDANT LIGHT AT THE BEGINNING OF WORK. CAREFULLY PACK IN CARDBOARD BOX WITH BUBBLE WRAP, AND TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT. REINSTALL THIS FIXTURE IN BASE BID (SEE EL101).
 - 3 REMOVE EXISTING PANEL, TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT.
 - 4 REMOVE FIRE ALARM PANEL, TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT.
 - 5 REMOVE FIRE ALARM PANEL, TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT.
 - 6 REMOVE EXISTING MOTOR CONTROL CENTER, TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT.
 - 7 DISCONNECT AND REMOVE EXISTING WALL PACK FIXTURE, TURN OVER TO CAMPUS ELECTRICAL DEPARTMENT.
 - 8 REMOVE EXISTING ICE MELT SYSTEM POWER PANEL AND CONTACTOR, REINSTALL AFTER ROOF REPLACEMENT. SEE SHEET EX202 FOR DETAILED DESCRIPTION OF WORK.
 - 9 REMOVE EXISTING ICE MELT J-BOX (BELOW ROOF EAVE) AND ASSOCIATED GUTTER AND DOWN SPOUT ICE MELT CABLES, REINSTALL AFTER ROOF REPLACEMENT. SEE SHEET EX202 FOR DETAILED DESCRIPTION OF WORK.
 - 10 EXISTING CONDUITS (6) 4" (THREE ARE EMPTY) SHALL REMAIN WITH EXISTING CABLES AS FOLLOWS:
 - a. CONDUIT #1: 900 PAIR VOICE FROM ADMIN BLDG AND (3) FIBEROPTIC CABLES FROM ELC.
 - b. CONDUIT #4: 200 PAIR VOICE AND (1) FIBEROPTIC TO CONFERENCE CENTER.
 - c. CONDUIT #6: 600 PAIR VOICE AND (1) FIBEROPTIC TO AUDITORIUM.
 - d. CONDUITS #2, #3, & #5: SPARE- ONE TO ADMIN; ONE TO CONFERENCE CENTER; ONE TO AUDITORIUM.EXISTING CABLES SHALL REMAIN.
 - 11 EXISTING SPLICE CASE SHALL REMAIN. ONCE DEMOLITION STARTS, REMOVE THE 100 PAIR CABLE WHICH SERVES OLD MAIN, BUT THE OTHER CABLES SHALL REMAIN.
 - 12 CONSTRUCT A METAL AND PLYWOOD BARRIER TO PROTECT CONDUIT ENTRIES, VOICE AND FIBEROPTIC CABLES, AND SPLICE CASE THROUGHOUT THE DEMOLITION PHASE.



C2 SECOND LEVEL DEMOLITION PLAN
1/8" = 1'-0"



C4 THIRD LEVEL DEMOLITION PLAN
1/8" = 1'-0"



A4 MAIN LEVEL DEMOLITION PLAN
1/8" = 1'-0"

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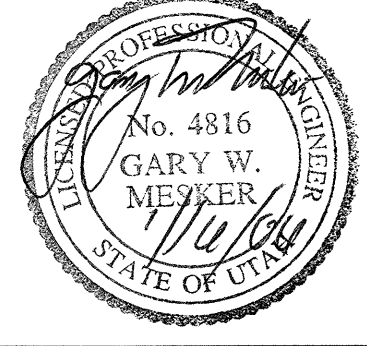
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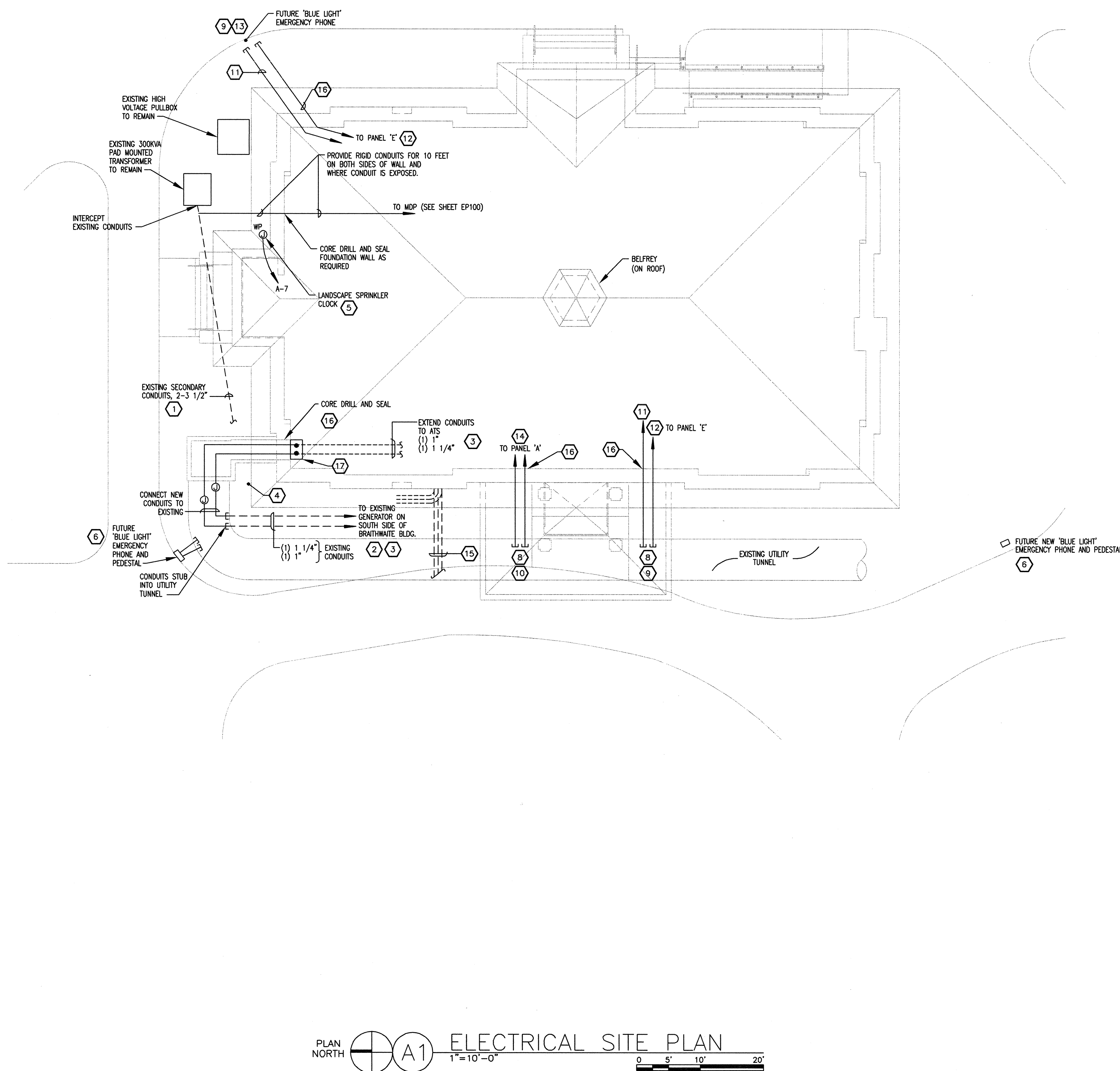
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ELECTRICAL
DEMOLITION
PLANS

ED101



- ### SHEET KEYNOTES
- 1 REMOVE EXISTING SECONDARY CONDUCTORS, ABANDON CONDUIT.
 - 2 EXISTING GENERATOR IS APPROXIMATELY 340 FEET FROM CONDUIT STUBS IN UTILITY TUNNEL.
 - 3 PROVIDE (8) #14 CONTROL WIRING IN THE 1\"C. FROM ATS TO EXISTING GENERATOR AND (4) #1 AND (4) #6 GND IN THE 1 1/4\"C. FROM ATS TO THE EXISTING GENERATOR.
 - 4 DISCONNECT POWER FROM EXISTING LANDSCAPE SPRINKLER CLOCK.
 - 5 PROVIDE POWER CIRCUIT AND CONNECTION TO NEW LANDSCAPE SPRINKLER CLOCK. COORDINATE EXACT LOCATION FOR CONNECTION REQUIREMENTS WITH LANDSCAPE CONTRACTOR.
 - 6 TO BE INSTALLED IN TEACHER ED BUILDING PROJECT. COORDINATE EXACT LOCATION WITH CAMPUS FACILITIES DEPARTMENT. CONCRETE BASE AND ANCHORS TO MATCH EXISTING CAMPUS PHONES.
 - 7 NOT USED.
 - 8 STUB CONDUITS INTO EXISTING UTILITY TUNNEL.
 - 9 FOR FUTURE 'BLUE LIGHT' EMERGENCY PHONE.
 - 10 FOR FUTURE FLAGPOLE LIGHTING.
 - 11 EMPTY 1\"C. AND PULL STRING TO ELEC/COMM ROOM 102 TERMINAL BOARD.
 - 12 EMPTY 1\"C. AND PULL STRING TO PANEL 'E'.
 - 13 STUB CONDUITS INTO PLANTING AREA, CAP AND MARK LOCATION.
 - 14 (2) EMPTY 3/4\" CONDUITS AND PULL STRINGS TO PANEL 'A'.
 - 15 EXISTING (1) 200 PAIR VOICE TO CONFERENCE CENTER, 600 PAIR TO AUDITORIUM, (1) 900 PAIR VOICE FROM ADMINISTRATION, (3) FIBER OPTIC TO ADMINISTRATION AND ELC IN (6) 4\" EXISTING CONDUITS.
 - 16 CORE DRILL THROUGH WALL.
 - 17 ELEVATION CHANGE IN CONDUITS FOR THE ATS. CONDUITS ENTER ABOVE FLOOR LEVEL AND TRANSITION TO BELOW FLOOR SLAB.

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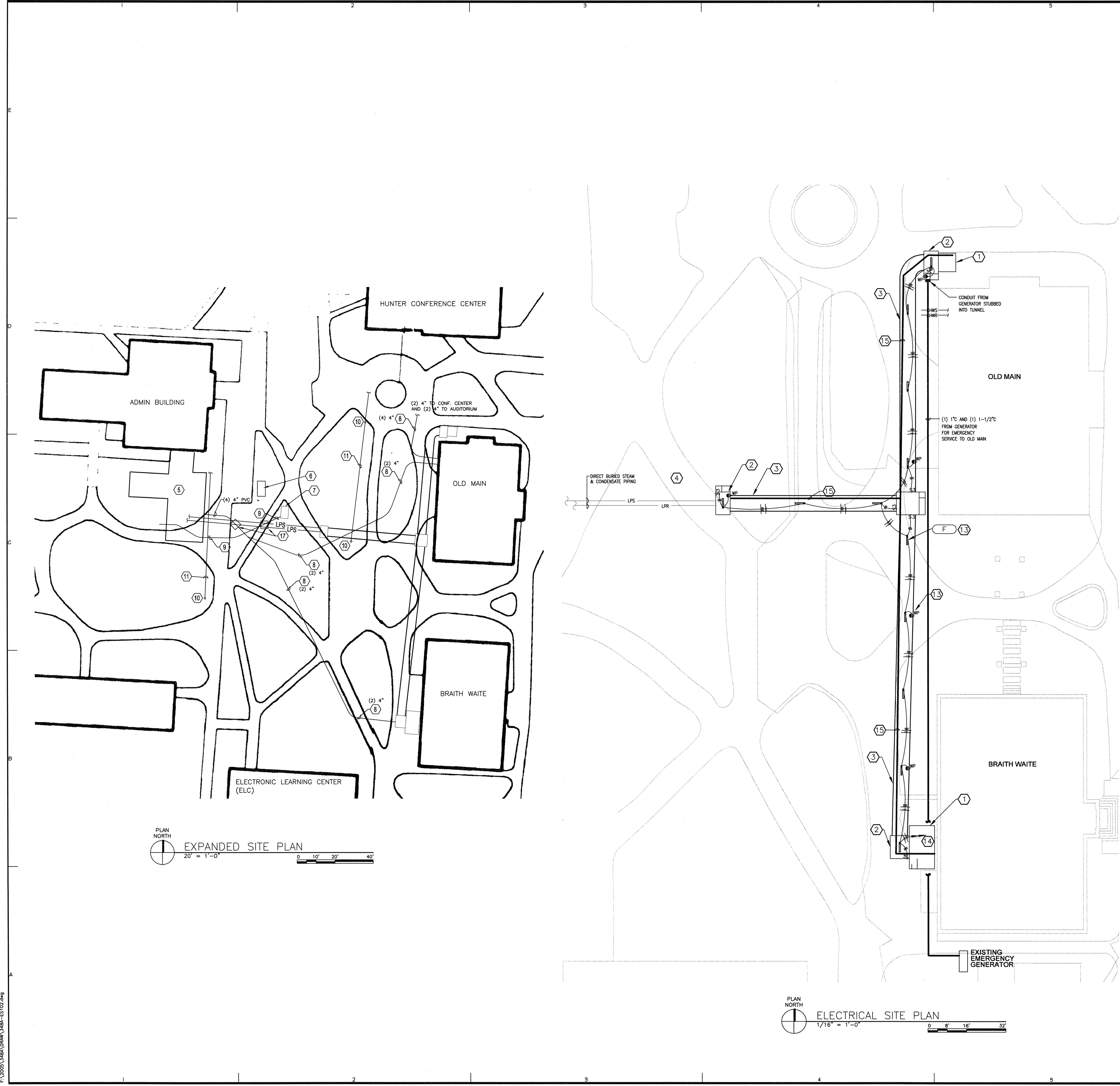
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ELECTRICAL
SITE PLAN

ES101



- ### GENERAL NOTES
1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING UTILITIES AND REPAIR ANYTHING DAMAGED DURING CONSTRUCTION.
 2. SCHEDULING AND COORDINATING IS CRITICAL. THE TUNNEL WORK SHALL BE SCHEDULED TO BEGIN AS SOON AS POSSIBLE AFTER MAY COMMENCEMENT CEREMONIES. CONTRACTOR SHALL COORDINATE START UP OF EXCAVATION WITH OWNER'S REPRESENTATIVE.
 3. WHEELCHAIR ACCESS TO THE OLD MAIN BUILDING MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
 4. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO TREES AS MUCH AS POSSIBLE.
 5. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCT BANKS, BURIED CONDUITS, ETC.
 6. COMMUNICATIONS CONDUITS SHALL BE PROTECTED AT ALL TIMES TO AVOID DAMAGE TO CABLES. CABLES CONTAIN STATE-WIDE EDNET FIBER OPTIC, AND CAMPUS-WIDE TELEPHONE AND FIRE ALARM WHICH CANNOT BE INTERRUPTED. DAMAGE OR INTERRUPTION BY ANY CONTRACTOR WILL RESULT IN DIRE CONSEQUENCES.
 7. COORDINATE WITH GENERAL CONTRACTOR FOR ATTACHMENT OF CONDUIT STRAPS, LIGHT SUPPORTS, CABLE TRAY SUPPORTS, ETC. TO PROVIDE WATER TIGHT SEAL AT ANY PENETRATIONS OF CORRUGATED METAL TUNNEL.
 8. ALL PROJECT DEMOLITION NOTES SHALL APPLY TO WORK ON THIS PLAN.

- ### SHEET KEYNOTES
1. EXISTING CONCRETE VAULT.
 2. EXISTING CONCRETE VAULT.
 3. EXISTING 6'-6" CMP (CORRUGATED METAL PIPE) TUNNEL.
 4. EXISTING DIRECT BURIED STEAM AND CONDENSATE PIPING TO EXISTING MECHANICAL ROOM.
 5. EXISTING UNDERGROUND MECHANICAL ROOM.
 6. EXISTING ELECTRICAL TRANSFORMER.
 7. EXISTING HIGH VOLTAGE AND COMMUNICATION BOXES.
 8. EXISTING DIRECT BURIED COMMUNICATIONS CONDUITS (TWO OR FOUR 4" PVC) WITH CAMPUS COMMUNICATIONS CABLES (TELEPHONE, DATA, FIRE ALARM, BUILDING MANAGEMENT, ETC.).
 9. EXISTING CONCRETE ENCASED DUCT BANK WITH HIGH VOLTAGE AND COMMUNICATIONS CABLES.
 10. EXISTING SITE LIGHTING.
 11. EXISTING BURIED 1" CONDUIT WITH SITE LIGHTING CIRCUITS.
 12. EXISTING 10 FT X 10 FT X 1/2 INCH THICK COPPER PLATE BETWEEN STEAM PIPING AND CONDUITS FOR HEAT DISSIPATION.
 13. EXISTING LIGHT FIXTURES AND WP DUPLEX GFI RECEPTACLES.
 14. (2) EXISTING CIRCUITS (#10 WIRE) TO PANEL "M" IN BRAITH WAITE MECHANICAL ROOM.
 15. EXISTING 12" W X 4" DEEP GALVANIZED STEEL CABLE TRAY, CLASS 12B, 9" RUNG SPACING, SUPPORTED EVERY 10 FEET WITH WALL KNEE BRACKETS CUSTOMIZED FOR CIRCULAR TUNNEL WALLS.

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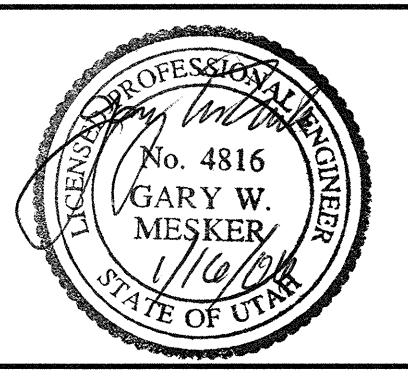
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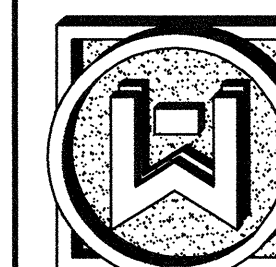
ELECTRICAL
SITE PLAN

ES102

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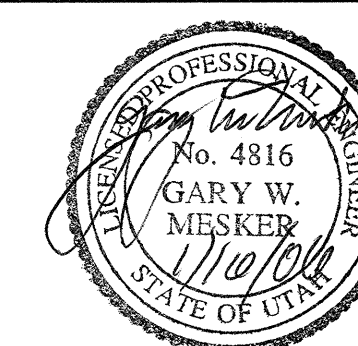
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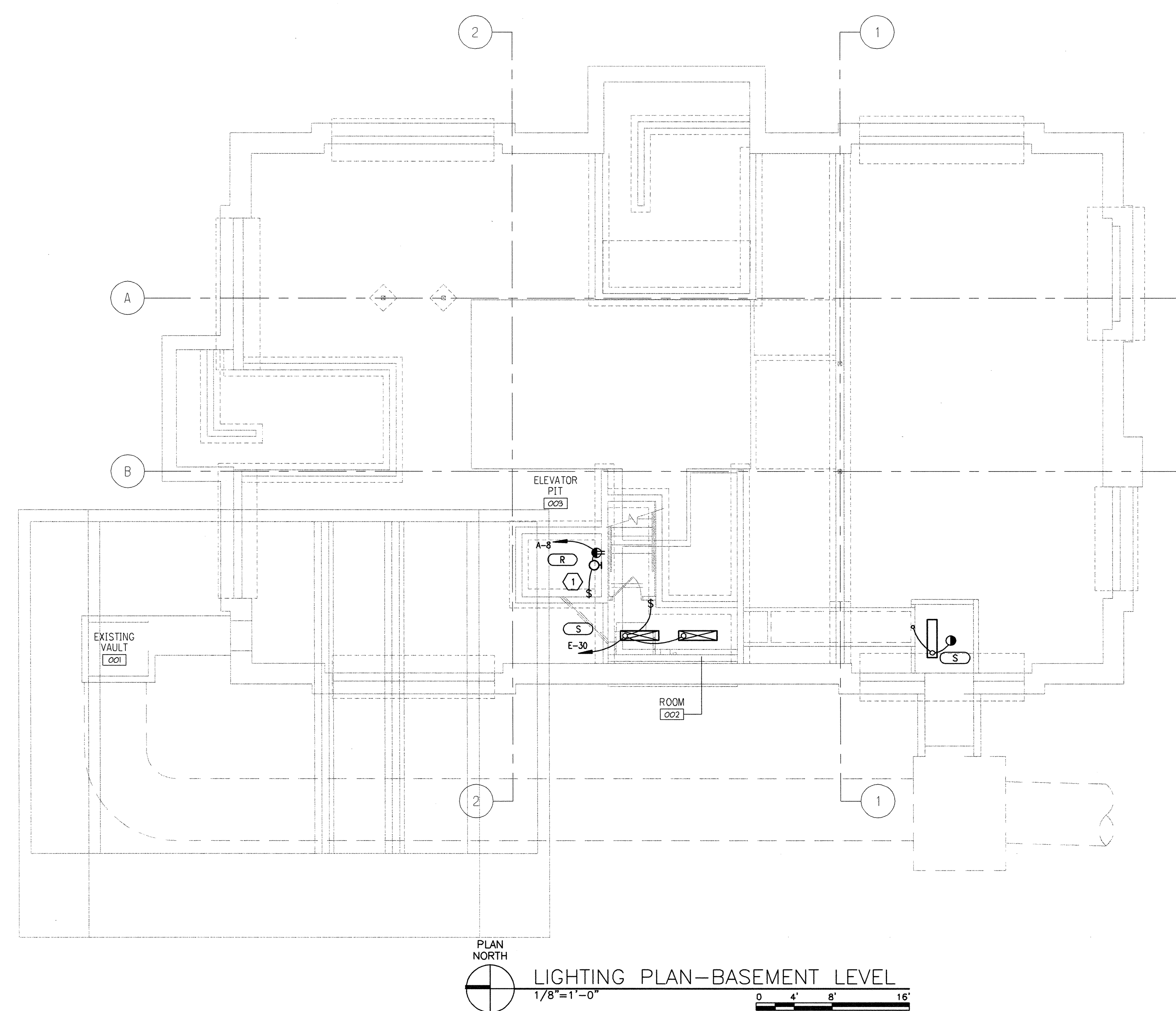
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LIGHTING PLAN
BASEMENT LEVEL

EL100

1. REFER TO SHEET AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN ON THE DETAILS ON ARCHITECTURAL SHEETS AE506, AE507, AND AE508.

- 1 LOCATE SWITCH NEXT TO PIT LADDER. COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR SHOP DRAWINGS BEFORE ROUGH IN.
- 2 EXTEND TO CIRCUIT A-5 ON MAIN LEVEL.



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- ① LIGHT FOR THIS LANDING IS SHOWN ON SHEET EL102.
- ② INSTALL POWER PACK IN AN ACCESSIBLE LOCATION.
- ③ CIRCUIT THROUGH LIGHTING CONTACTOR. TIME CLOCK C1 LOCATED ON 2ND FLOOR.
- ④ COORDINATE LIGHT FIXTURE PLACEMENT WITH EQUIPMENT LOCATIONS.

- ① LIGHT FOR THIS LANDING IS SHOWN ON SHEET EL102.
- ② INSTALL POWER PACK IN AN ACCESSIBLE LOCATION.
- ③ CIRCUIT THROUGH LIGHTING CONTACTOR. TIME CLOCK C1 LOCATED ON 2ND FLOOR.
- ④ COORDINATE LIGHT FIXTURE PLACEMENT WITH EQUIPMENT LOCATIONS.

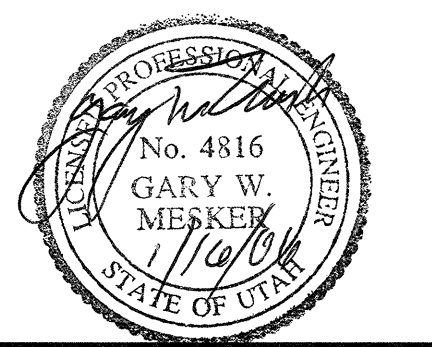
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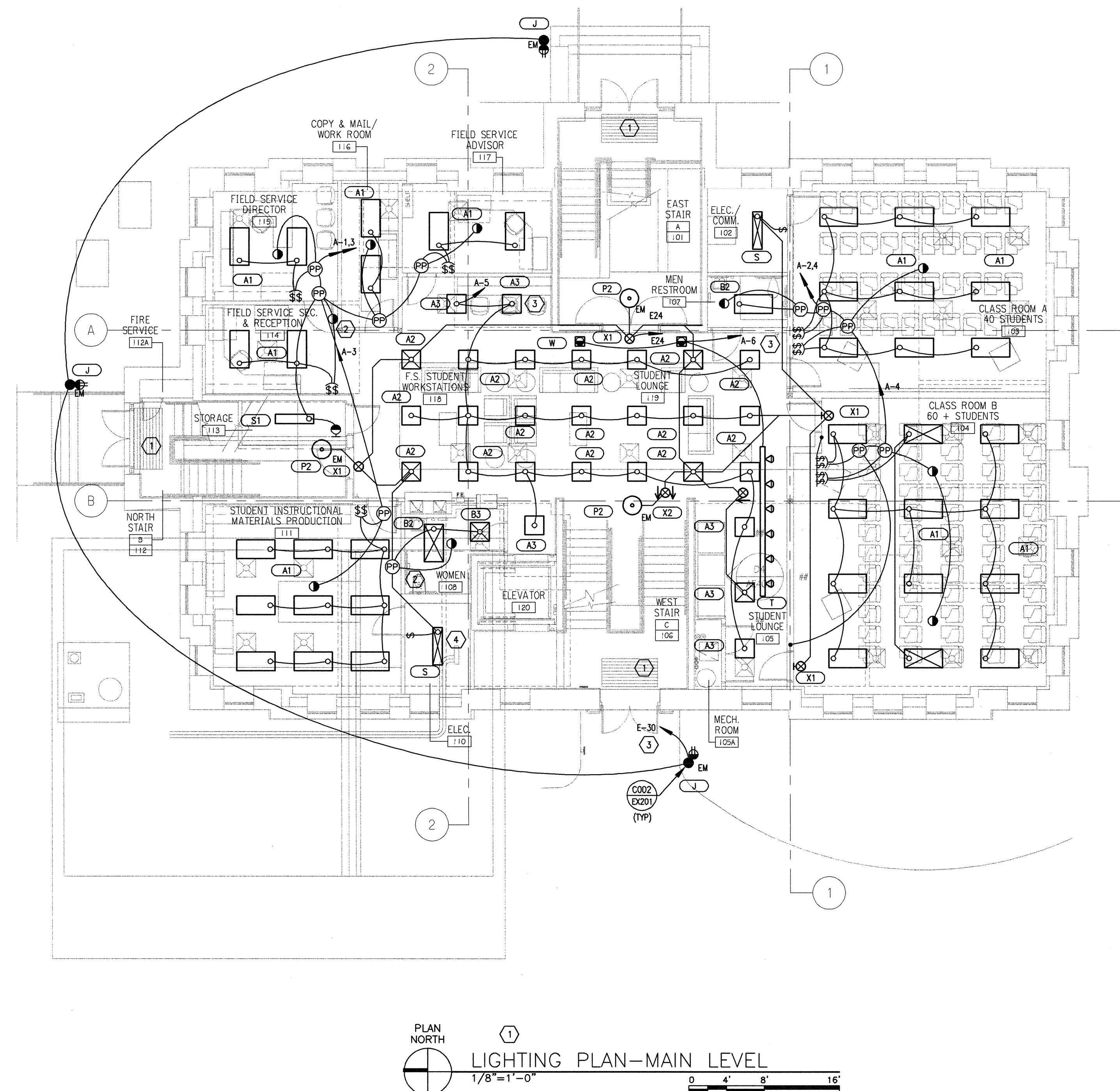
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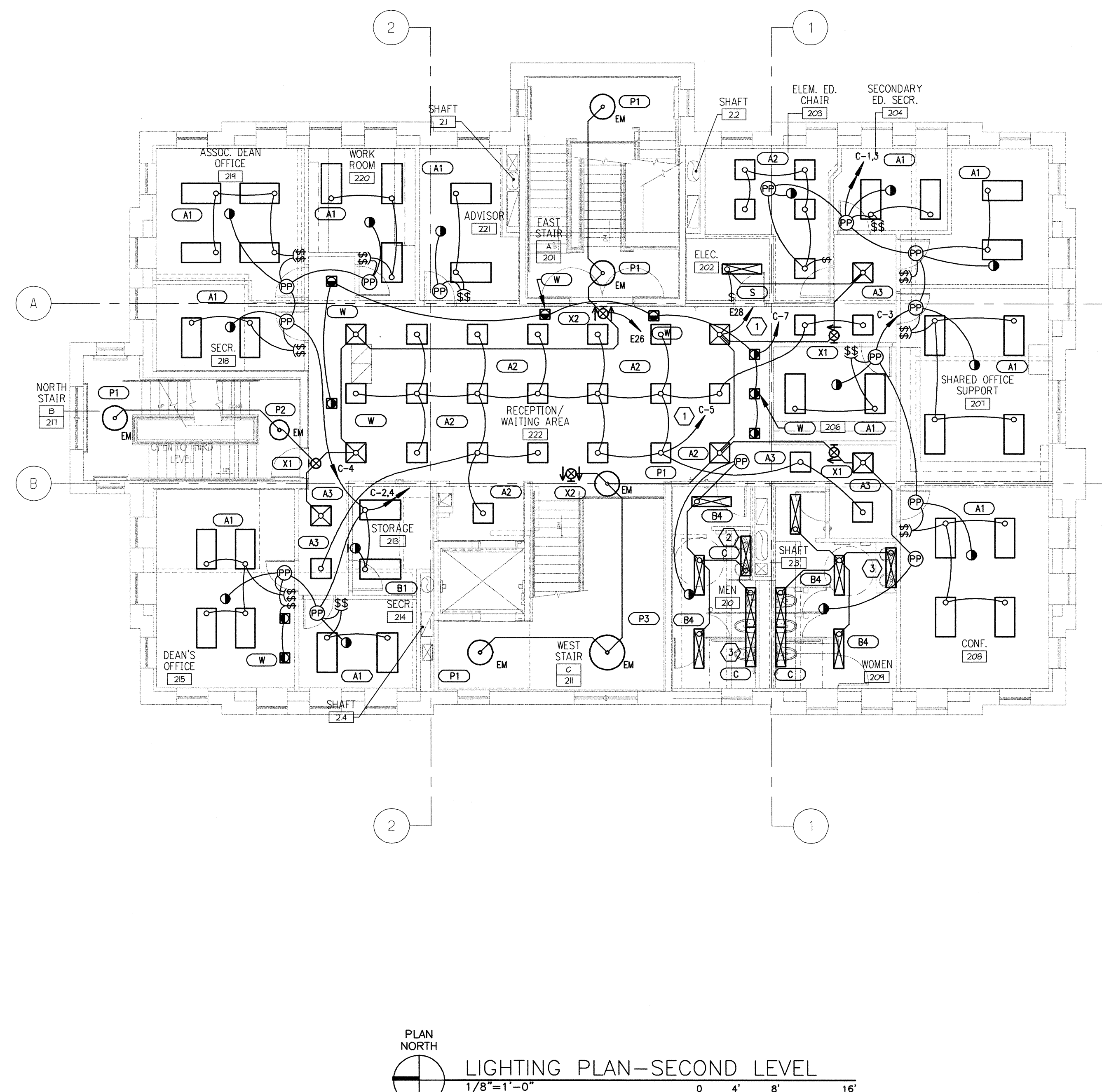
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LIGHTING PLAN MAIN LEVEL

EL101

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By: co2d, Jan 16, 2006 5:28pm
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1. REFER TO SHEET AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AE506, AE507, AND AE508.
- SHEET KEYNOTES
1. CIRCUIT LIGHTS THROUGH LIGHTING CONTACTOR C1 AND TIME CLOCK.
2. PROVIDE UNSWITCHED LOG FOR SWITCHED OPERATION DURING NORMAL POWER.
3. WALL MOUNT AT CEILING HEIGHT.

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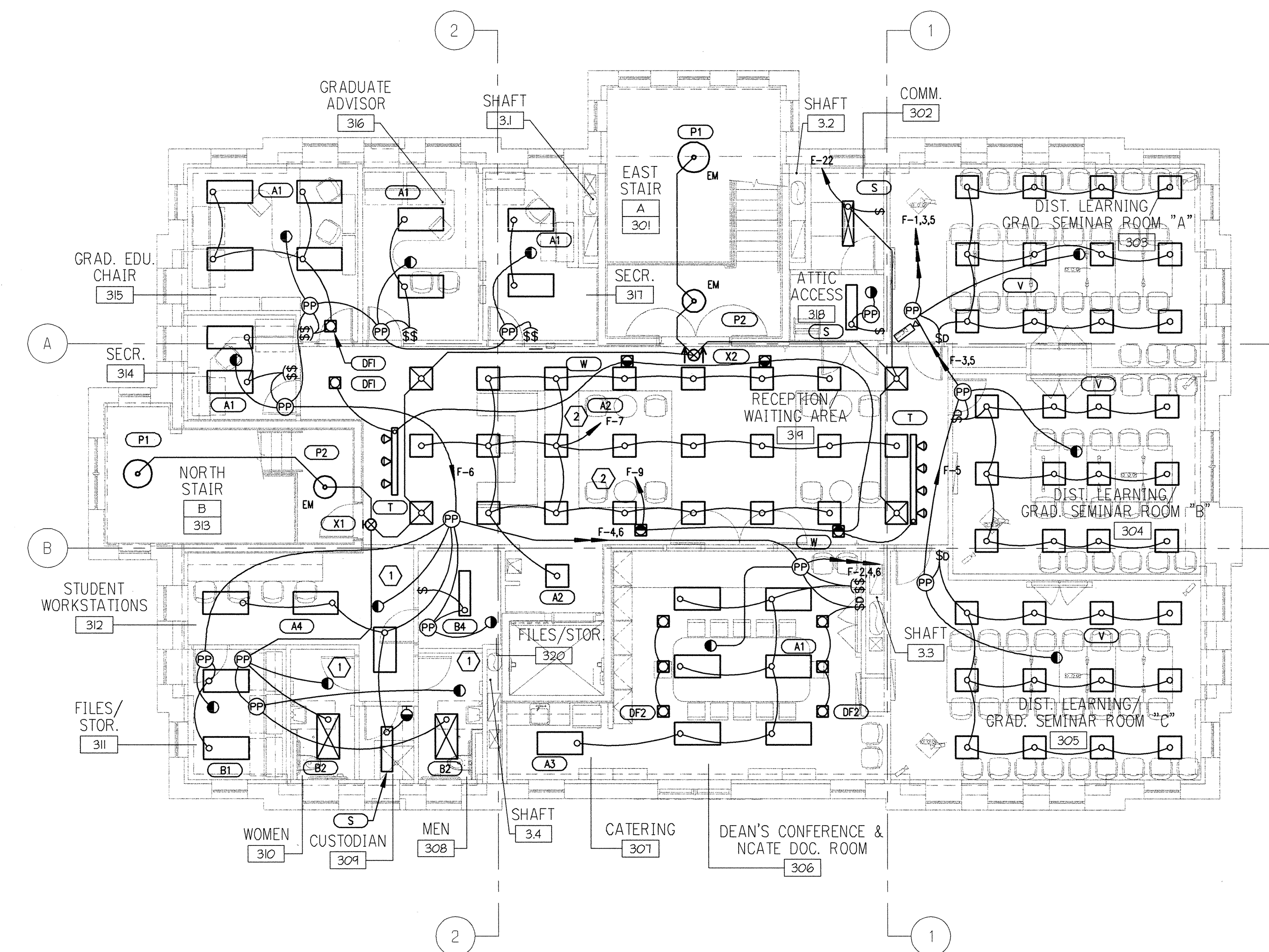
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3D/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/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GENERAL SHEET NOTES

1. REFER TO SHEET AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AE506, AE507 AND SE508.

SHEET KEYNOTES

1. INSTALL POWER PACK IN AN ACCESSIBLE LOCATION. CIRCUIT LIGHTS THROUGH TIME CLOCK/LIGHTING.
2. CIRCUIT LIGHTS THROUGH TIME CLOCK AND LIGHTING.
3. LOCATE SWITCH NEXT TO PIT LADDER. COORDINATE WITH ELEVATOR INSTALLER AND ELEVATOR SHOP DRAWINGS BEFORE ROUGH IN.
4. RE-INSTALL EXISTING CHAIN HUNG LIGHT FIXTURE (PREVIOUSLY REMOVED ON ED101)



PLAN NORTH
LIGHTING PLAN—THIRD LEVEL
1/8" = 1'-0"

**COOPER
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crsa

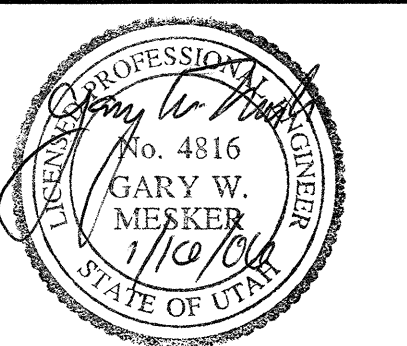
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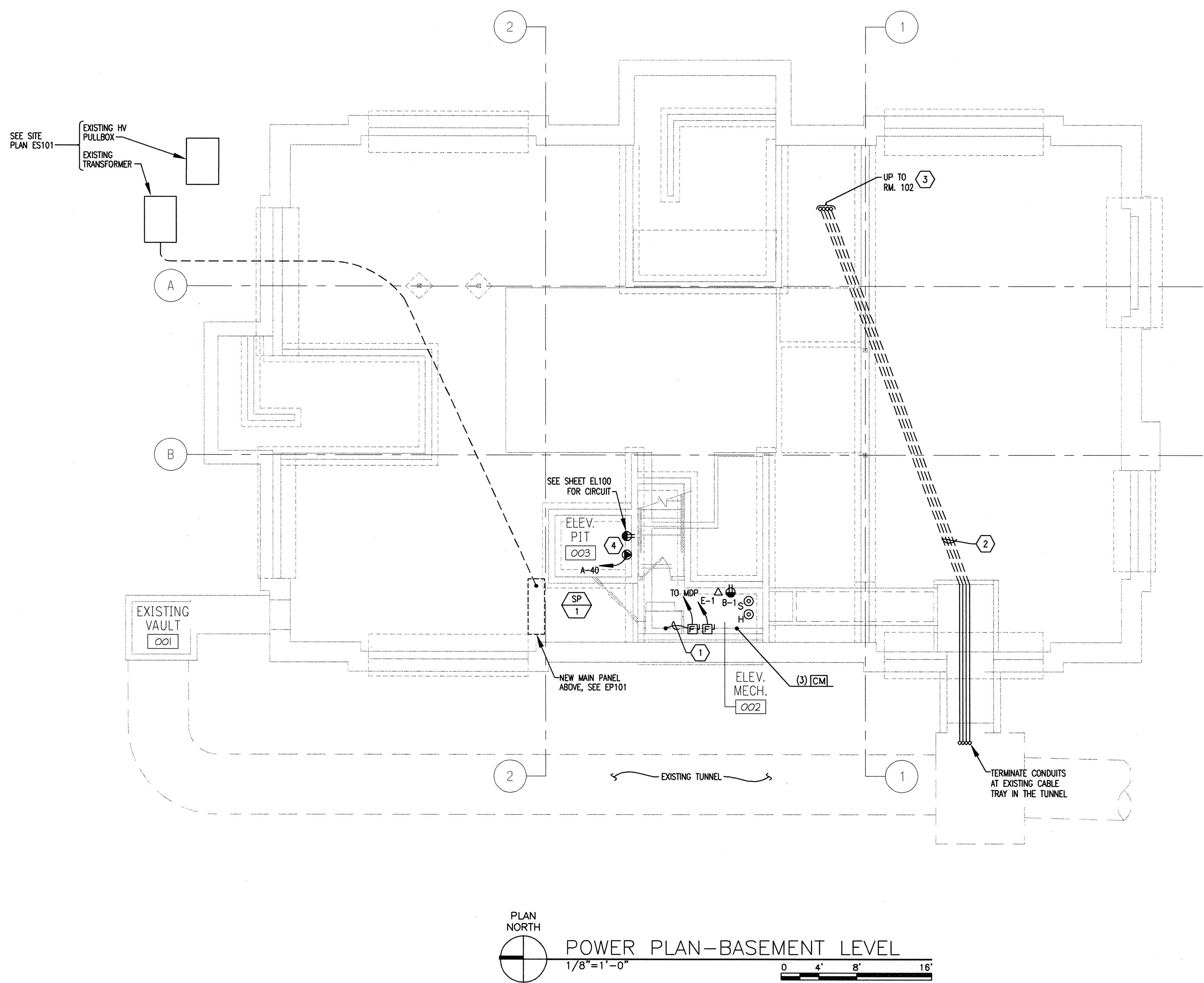
BY CRS ARCHITECT
BID DOCUMENT 1/18/06
CD 100% 7/21/04
DD Submittal 7/12/04
ARCHITECT PROJECT NO.: B04-012
DFCM PROJECT NO.: 03234730

**LIGHTING PLAN
THIRD LEVEL**

EL103

SHEET KEYNOTES

- ① PROVIDE N.O./N.C. AUXILIARY CONTACTS IN ELEVATOR MAIN DISCONNECT. RUN 3 #12, 3/4" CONDUIT FROM CONTACTS TO ELEVATOR CONTROLLER.
- ② (4) 4" CONDUITS FOR VOICE/DATA SERVICE.
- ③ STUB UP AT WEST WALL OF ELECT./COMM RM 102.
- ④ OUTLET FOR PORTABLE SUMP PUMP, COORDINATE NEMA CONFIGURATION FOR RECEPTACLE WITH SHOP DRAWINGS.



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SALT LAKE CITY, UTAH

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JAN 23 2006

BY GARY W. MESSER

BID DOCUMENT	1/16/06
CD 100%	7/21/04
CD Submittal	7/12/04
ARCHITECT PROJECT NO.:	B04-012
DFCM PROJECT NO.:	03234730

POWER PLAN
BASEMENT LEVEL

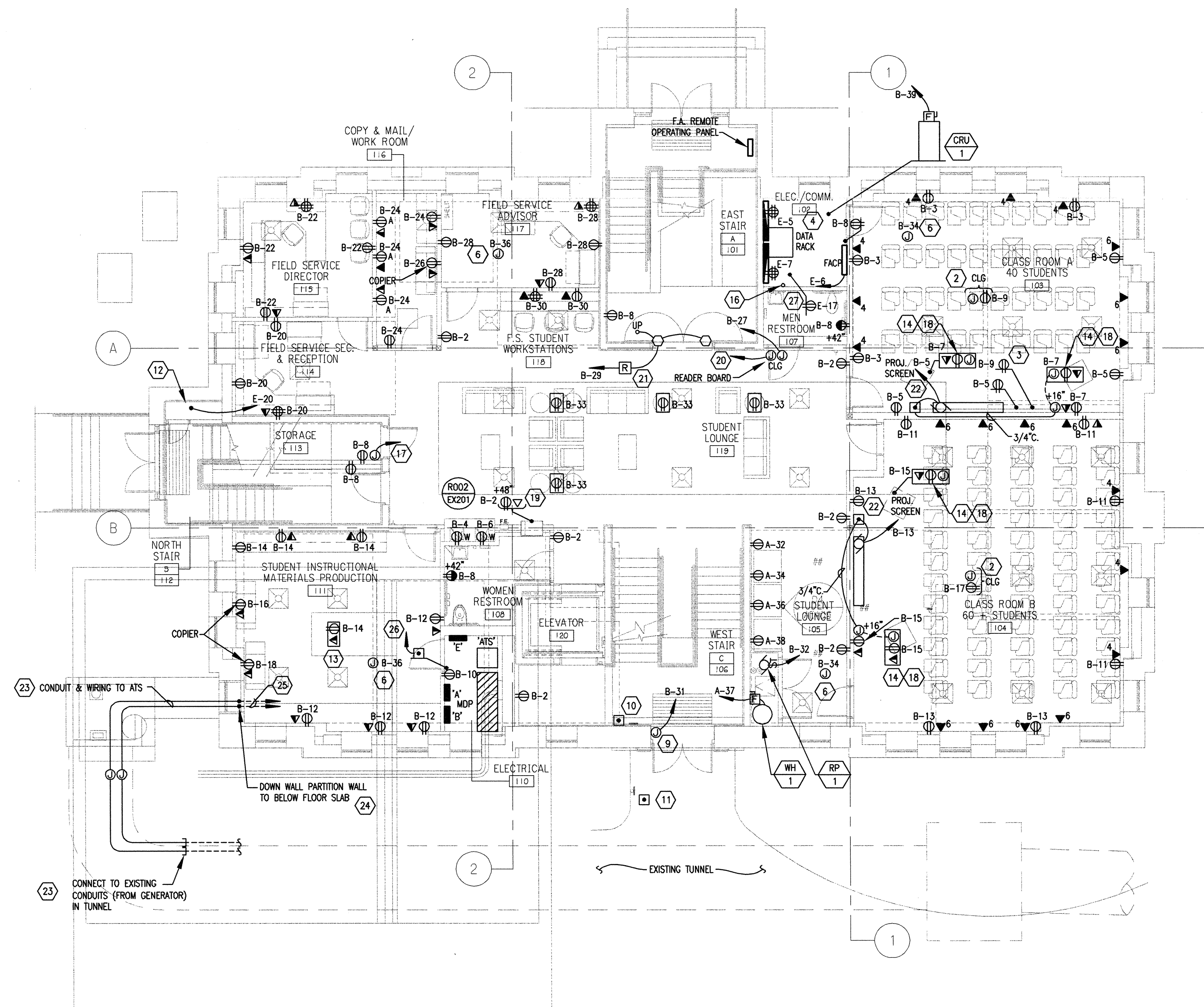
EP100

GENERAL SHEET NOTES

1. REFER TO AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AES06, AES07, AND AES08.
2. PROVIDE (1) 3/4" CONDUIT FROM EACH TELEPHONE, DATA, AND TELE/DATA OUTLET TO THE TERMINAL BOARDS IN ELECT/COMM ROOM 102.
3. WALL CONSTRUCTION IS WOOD STUDS. ALL HORIZONTAL CONDUIT IN WALLS SHALL BE FLEXIBLE METAL CONDUIT.

SHEET KEYNOTES

1. PROVIDE EMPTY CONDUITS WITH PULL STRING FOR FUTURE CAPABILITY.
2. PROVIDE DUPLEX RECEPTACLE AND CONTROL JUNCTION BOX FLUSH IN CEILING FOR PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECT. SEE SHEET EY102 FOR PROJECTOR CONTROL AND RACEWAYS.
3. PROVIDE RECEPTACLE FOR POWER TO PLASMA DISPLAY. COORDINATE LOCATION/HEIGHT WITH ARCHITECTURAL & EQUIP. SHOP DRAWINGS.
4. PROVIDE RED COLORED RECEPTACLES FOR DEVICES ON EMERGENCY POWER.
5. PROVIDE N.O./N.C. AUXILIARY CONTACTS IN ELEVATOR MAIN DISCONNECT. RUN (3) #12, 3/4" CONDUITS FROM CONTACTS TO ELEVATOR CONTROLLER.
6. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND 120V. CIRCUIT FOR VAV BOX POWER. COORDINATE EXACT LOCATION WITH MECH CONTRACTOR.
7. PROVIDE OUTLETS FOR COURTESY PHONE.
8. DEDICATED EMERGENCY RECEPTACLE FOR SECURITY.
9. PROVIDE POWER TO ADA DOOR OPERATOR.
10. WIRELESS TYPE ACTUATOR PUSH-PLATE (BY DIV.11) FOR DOOR OPERATOR. PROVIDE JUNCTION BOX ON WALL.
11. WIRELESS TYPE ACTUATOR PUSH-PLATE (BY DIV.11) FOR DOOR OPERATOR AUTOMATIC DOOR. PROVIDE WEATHER PROOF JUNCTION BOX ROUGH-IN. MOUNT ON PEDESTAL (PEDESTAL BY DIV.11).
12. PROVIDE POWER TO FIRE SPRINKLER BELL. SEE SHEET EY101.
13. 2-COMPARTMENT FLOOR BOX.
14. FLOOR BOX, POWER, TELE/DATA, CONTROL, AV. SEE SHEET EY102 FOR AV CONDUITS AND CONTROL CONDUITS.
15. PROVIDE RECEPTACLES FOR POWER TO SMART BOARD. COORDINATE EXACT LOCATION/HEIGHT WITH ARCHITECTURAL & EQUIP. SHOP DRAWINGS.
16. 1-1/4" C. UP TO BELFRY FOR CABLEING OF CAMPUS BELL ("CAROLON") SYSTEM. EXTEND CONDUIT FROM SERVER LOCATION TO ROOF BELFRY SPEAKERS.
17. JUNCTION BOX AT RECEPTACLE HEIGHT (16") WITH 3/4" C. TO TELEPHONE TERMINAL BOARD (FUTURE TELE/DATA CAPABILITY).
18. LOCATE FLOOR BOX AT TEACHERS STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PRIOR TO ROUGH-IN.
19. PROVIDE TELEPHONE OUTLET AND RECEPTACLE FOR COURTESY PHONE. COORDINATE EXACT HEIGHT WITH ARCHITECTURAL.
20. PROVIDE POWER CONNECTION AND CONTROL CONDUIT FOR OWNER-FURNISHED READER BOARD. RUN 3/4" C. TO ELECTRICAL ROOM 110 (TELE/DATA SIDE) FOR CONTROL. COORDINATE EXACT LOCATION OF READER BOARD WITH ARCHITECTURAL PRIOR TO ROUGH-IN.
21. PROVIDE POWER TO HOLD-OPENS (BY DIVISION 11) THROUGH FIRE ALARM RELAY. ALSO SEE SHEET EY101.
22. INSTALL AND CONNECT PROJECTOR SCREEN CONTROL STATION. PROVIDE CONTROL WIRING AS REQUIRED. COORDINATE EXACT LOCATION OF CONTROL WITH ARCHITECTURAL.
23. SEE SHEET ES101.
24. PROVIDE JUNCTION BOX FLUSH IN WALL (FOR WIRE PULL) WHERE CONDUITS ENTER ROOM. THEN RUN CONDUITS DOWN TO BELOW FLOOR SLAB.
25. RUN CONDUITS BELOW FLOOR TO ATS IN ELECTRICAL ROOM 110.
26. PROVIDE ON-OFF PUSHBUTTON STATION, LABEL "ICE MELT". RUN 4#12, 3/4" TO ICE MELT POWER PANEL & CONTACTOR IN ATTIC. WIRE FOR ON-OFF CONTROL OF ICE MELT SYSTEM (NO AUTOMATIC CONTROL).
27. LOCATE RECEPTACLE NEXT TO SECURITY JUNCTION BOX.



PLAN NORTH
POWER PLAN-MAIN LEVEL
1/8"=1'-0"

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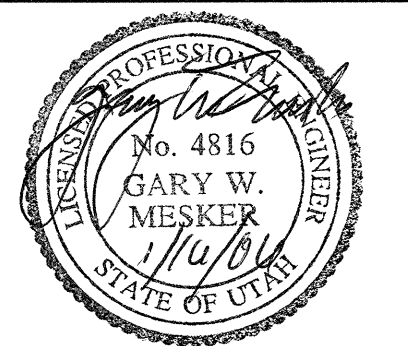
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ARCHITECT PROJECT NO.: B04-012
DFCM PROJECT NO.: 03234730

**POWER PLAN
MAIN LEVEL**

EP101

1. REFER TO AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AE506, AE507, AND AE508.
2. PROVIDE (1) 3/4" CONDUIT FROM EACH TELEPHONE, DATA, AND TELE/DATA OUTLET TO THE TERMINAL BOARDS IN ELECTRICAL ROOM 202.
3. WALL CONSTRUCTION IS WOOD STUDS. ALL HORIZONTAL CONDUIT IN WALLS SHALL BE FLEXIBLE METAL CONDUIT.

- 1 PROVIDE EMPTY CONDUITS WITH PULL STRING FOR FUTURE CAPABILITY.
- 2 PROVIDE DUPLEX RECEPTACLE AND FOR POWER TO PLASMA DISPLAY. COORDINATE LOCATION/HEIGHT WITH ARCHITECTURAL AND EQUIPMENT SHOP DRAWINGS.
- 3 PROVIDE RECEPTACLE FOR POWER TO SMART BOARD, COORDINATE LOCATION/HEIGHT WITH ARCHITECTURAL AND EQUIPMENT SHOP DRAWINGS.
- 4 PROVIDE RED COLORED RECEPTACLES FOR DEVICES ON EMERGENCY POWER.
- 5 PROVIDE N.O./N.C. AUXILIARY CONTACTS IN ELEVATOR MAIN DISCONNECT. RUN (3) #12, 3/4" CONDUITS FROM CONTACTS TO ELEVATOR CONTROLLER.
- 6 PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND 120V. CIRCUIT FOR VAV BOX POWER. COORDINATE EXACT LOCATION WITH MECH CONTRACTOR.
- 7 PROVIDE OUTLETS FOR COURTESY PHONE.
- 8 DEDICATED EMERGENCY RECEPTACLE FOR SECURITY.
- 9 PROVIDE POWER TO AUTOMATIC DOOR OPERATOR.
- 10 PROVIDE JUNCTION BOX FOR DOOR OPERATOR PUSH PLATE (BY DIV.11). PROVIDE (3) #14, 3/4" C. CONTROL WIRING AND CONNECTIONS TO PUSH PLATE AND OPERATOR.
- 11 WIRELESS TYPE ACTUATOR FOR AUTOMATIC DOOR, PROVIDE WEATHER PROOF JUNCTION BOX ROUGH IN.
- 12 PROVIDE POWER TO FIRE SPRINKLER BELL. SEE SHEET EY101.
- 13 2-COMPARTMENT FLOOR BOX.
- 14 FLOOR BOX. POWER, TELE/DATA, CONTROL, AV. SEE SHEET EY102 FOR CONDUITS.
- 15 1-COMPARTMENT FLOOR BOX.
- 16 PROVIDE 1" CONDUIT TO BELTFEY ABOVE ATTIC.
- 17 PROVIDE POWER TO HOLD OPEN BY (DIVISION 11).
- 18 NOT USED



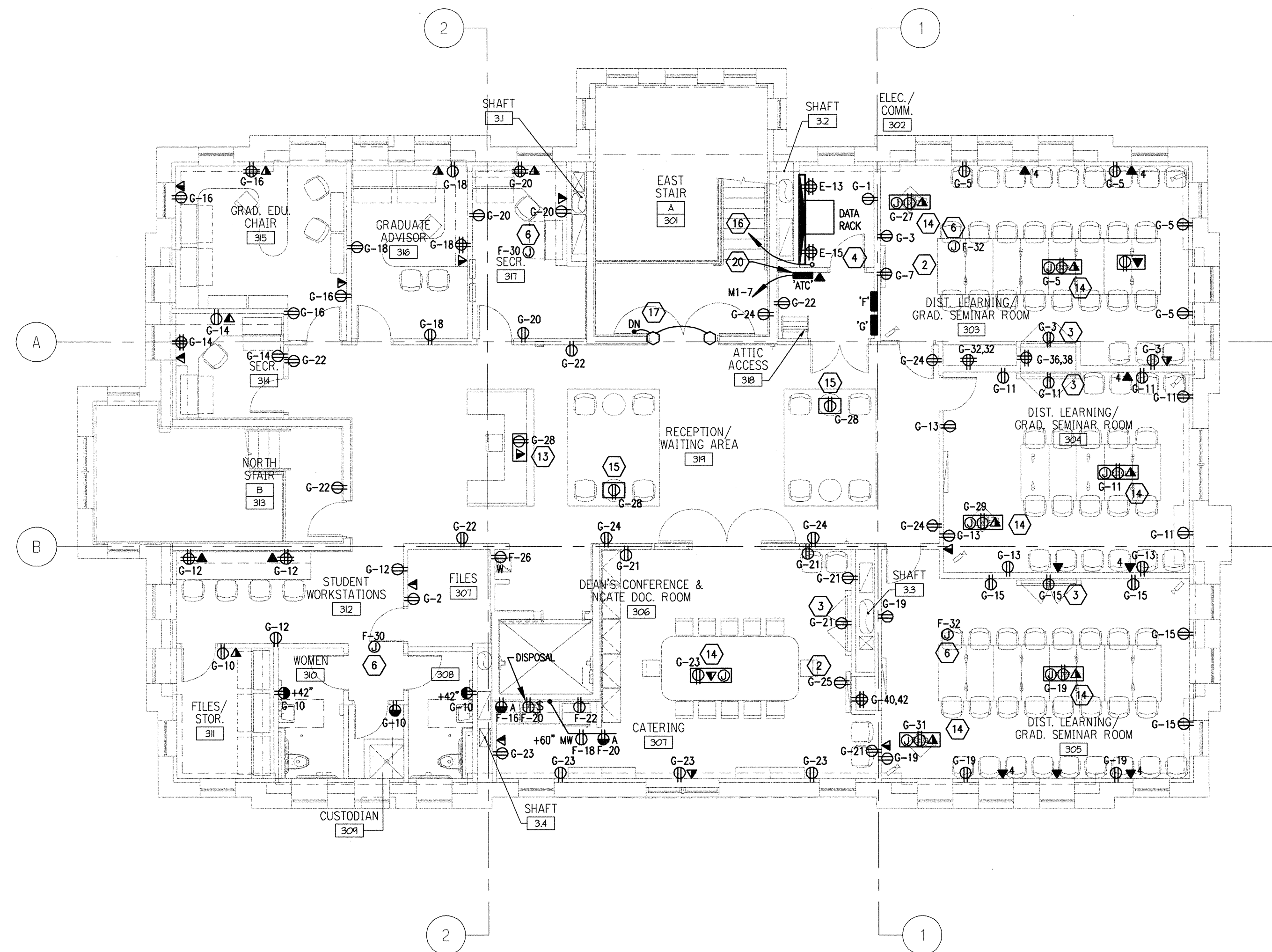
EP102

GENERAL NOTES

1. REFER TO AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AES05, AES07, AND AES08.
2. PROVIDE (1) 3/4" CONDUIT FROM EACH TELEPHONE, DATA, AND TELE/DATA OUTLET TO THE TERMINAL BOARDS IN ELEC/COMM. ROOM 302.
3. WALL CONSTRUCTION IS WOOD STUDS. ALL HORIZONTAL CONDUIT IN WALLS SHALL BE FLEXIBLE METAL CONDUIT.

SHEET KEYNOTES

1. PROVIDE EMPTY CONDUITS WITH PULL STRING FOR FUTURE CAPABILITY.
2. PROVIDE DUPLEX RECEPTACLE FOR POWER TO PLASMA DISPLAY. COORDINATE LOCATION/HEIGHT WITH ARCHITECTURAL AND EQUIPMENT SHOP DRAWINGS.
3. PROVIDE RECEPTACLE FOR POWER TO SMART BOARD. COORDINATE LOCATION/HEIGHT WITH ARCHITECTURAL AND EQUIPMENT SHOP DRAWINGS.
4. PROVIDE RED COLORED RECEPTACLES FOR DEVICES ON EMERGENCY POWER.
5. PROVIDE N.O./N.C. AUXILIARY CONTACTS IN ELEVATOR MAIN DISCONNECT. RUN 3#12.3/4" CONDUITS FROM CONTACTS TO ELEVATOR CONTROLLER.
6. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND 120V. CIRCUIT FOR VAV BOX POWER. COORDINATE EXACT LOCATION WITH MECH CONTRACTOR.
7. PROVIDE OUTLETS FOR COURTESY PHONE.
8. DEDICATED EMERGENCY RECEPTACLE FOR SECURITY.
9. PROVIDE POWER TO AUTOMATIC DOOR OPERATOR.
10. PROVIDE JUNCTION BOX FOR DOOR OPERATOR PUSH-PLATE (BY DIV. 11). PROVIDE (3) #14.3/4" C. CONTROL WIRING AND CONNECTIONS TO PUSH-PLATE AND OPERATOR.
11. WIRELESS TYPE ACTUATOR FOR AUTOMATIC DOOR. PROVIDE WEATHER PROOF JUNCTION BOX ROUGH IN.
12. PROVIDE POWER TO FIRE SPRINKLER BELL. SEE SHEET EY101.
13. 2-COMPARTMENT FLOOR BOX.
14. FLOOR BOX. POWER, TELE/DATA, AV. CONTROL. LOCATE BELOW CENTER OF TABLE. SEE SHEET EY102 FOR AV CONDUITS AND CONTROL CONDUITS.
15. 1-COMPARTMENT FLOOR BOX.
16. PROVIDE 1" CONDUIT TO BELFRY ABOVE ATTIC.
17. PROVIDE POWER TO HOLD-OPENS (BY DIVISION 11).
18. NOT USED.
19. NOT USED.
20. COORDINATE EXACT LOCATION WITH DIVISION 15.



PLAN NORTH
1/8"=1'-0"
POWER PLAN-THIRD LEVEL
0 4' 8' 16'

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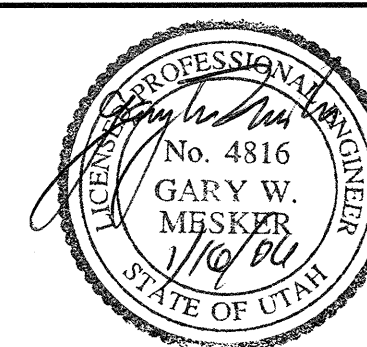
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POWER PLAN
THIRD LEVEL

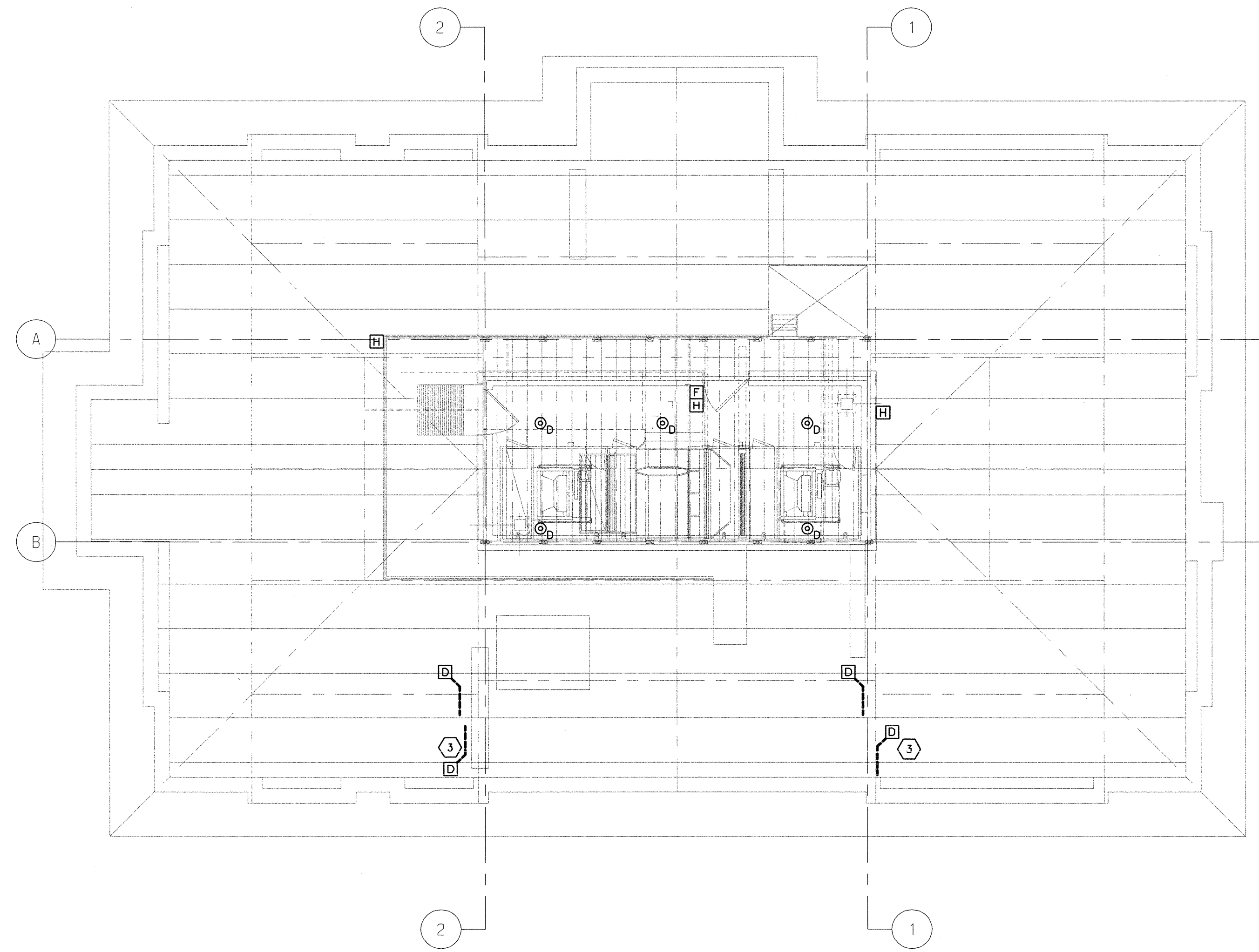
EP103

GENERAL NOTES

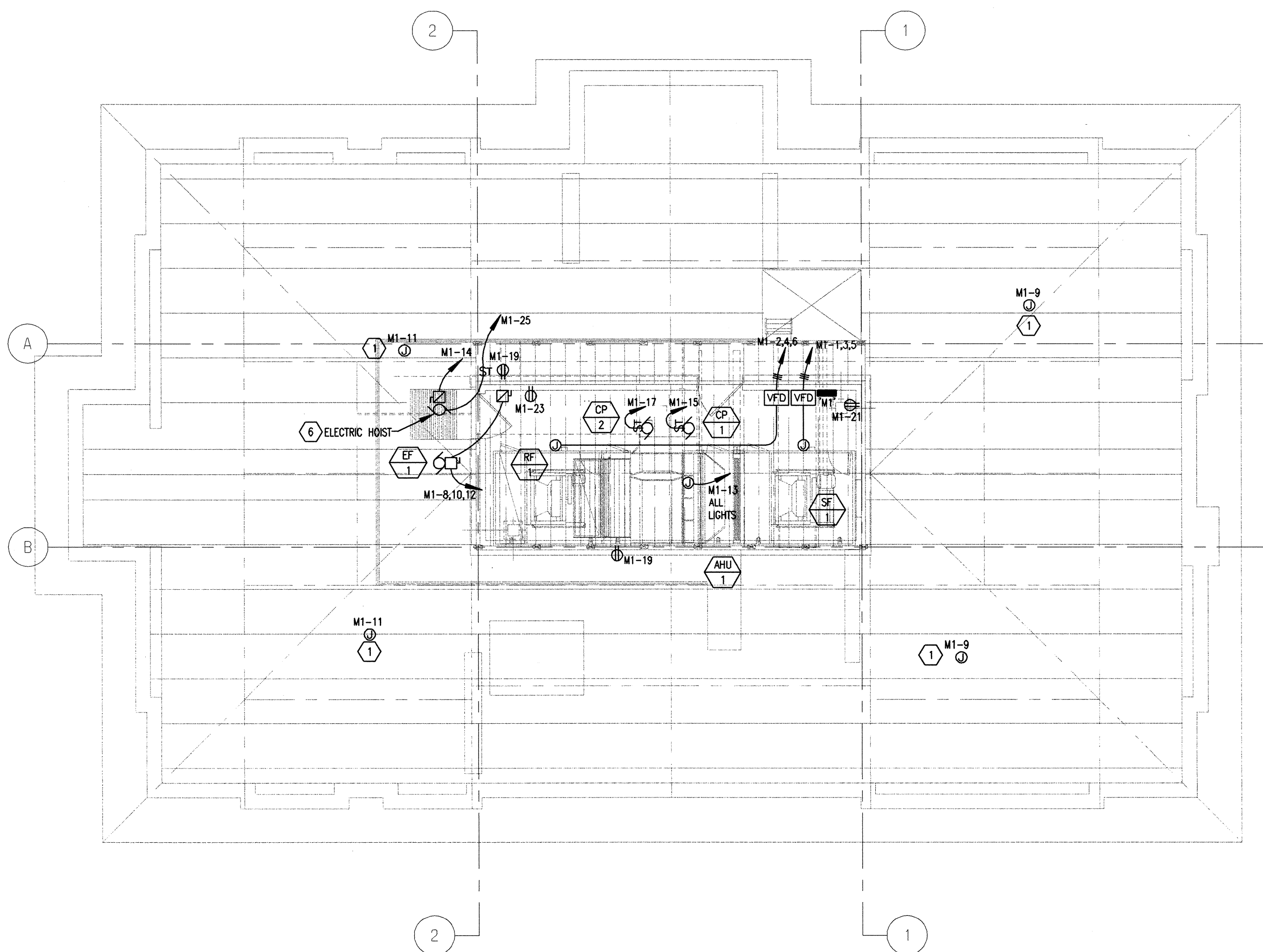
1. REFER TO AE101 AND AE102 FOR LOCATIONS OF FIRE RATED WALLS AND FIRE RATED SHAFTS. CONDUIT PENETRATIONS AND OTHER ELECTRICAL PENETRATIONS THROUGH THESE WALLS SHALL COMPLY WITH THE REQUIREMENTS SHOWN IN THE DETAILS ON ARCHITECTURAL SHEETS AES06, AES07, AND AES08.
2. PROVIDE (1) 3/4" CONDUIT FROM EACH TELEPHONE, DATA, AND TELE/DATA OUTLET TO THE TERMINAL BOARDS IN ELEC/COMM ROOM 302.
3. WALL CONSTRUCTION IS WOOD STUDS. ALL HORIZONTAL CONDUIT IN WALLS SHALL BE FLEXIBLE METAL CONDUIT.

SHEET KEYNOTES

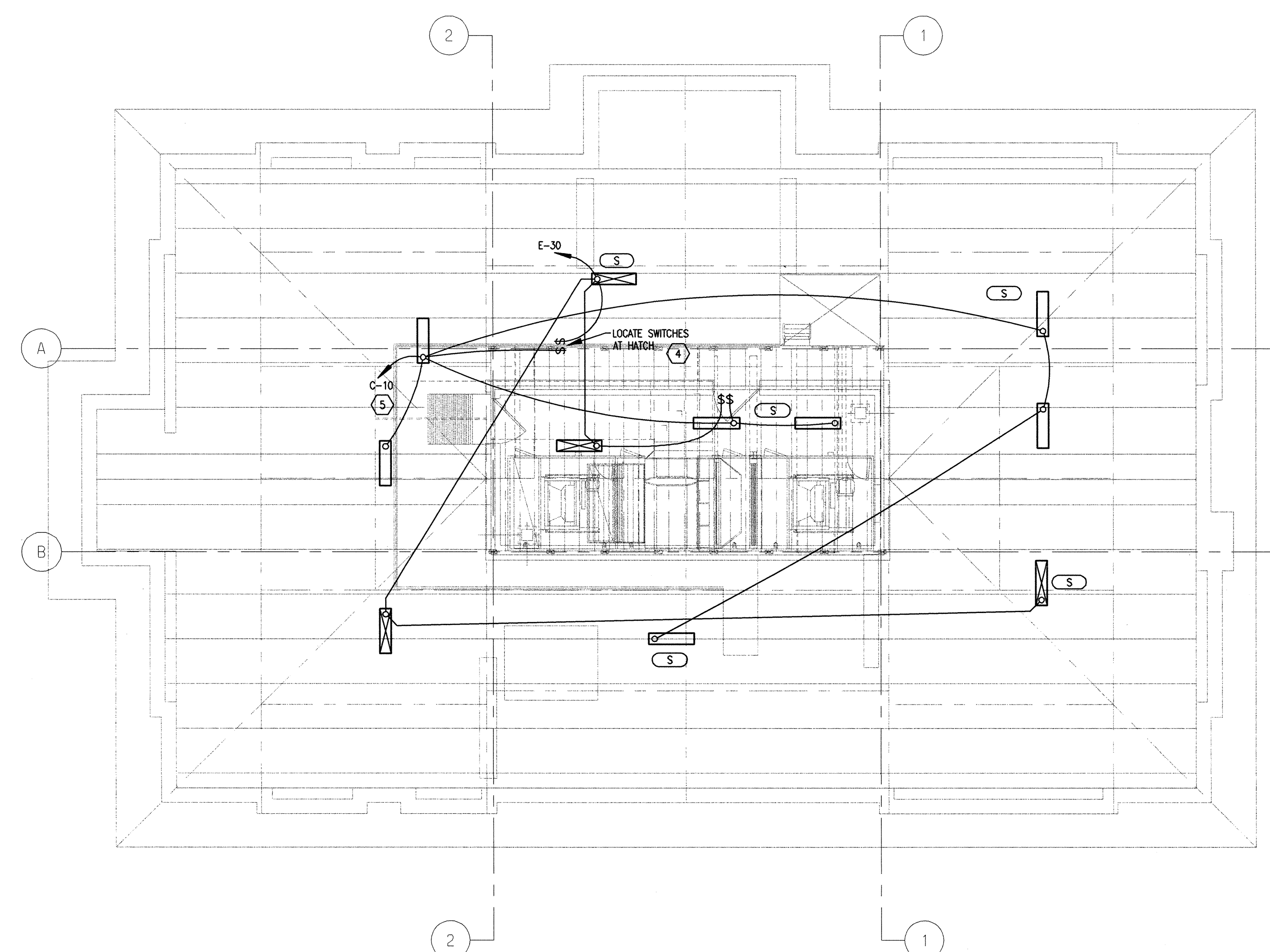
- 1 PROVIDE JUNCTION BOX AND 120V. CIRCUIT FOR VAV BOX POWER. COORDINATE EXACT LOCATION WITH MECH CONTRACTOR.
- 2 PROVIDE CONDUITS TO ROOF BELFRY EXISTING CAROLAN (BELL) SYSTEM FROM AND RUN TO ELECTRICAL ROOMS. SEE SHEETS EP101, 102, AND 103.
- 3 COORDINATE EXACT LOCATION WITH DIVISION 15 CONTRACTOR.
- 4 COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR.
- 5 CIRCUIT THROUGH LIGHTING CONTACTOR "C1" AND TIME CLOCK LOCATED ON THE SECOND FLOOR.
- 6 PROVIDE DISCONNECT AND CONNECTIONS TO ELECTRIC HOIST CONTROLS (1 HP, 102V, SINGLE PHASE). VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR.



PLAN NORTH
SYSTEMS PLAN-ATTIC LEVEL
1/8"=1'-0"



PLAN NORTH
POWER PLAN-ATTIC LEVEL
1/8"=1'-0"



PLAN NORTH
LIGHTING PLAN-ATTIC LEVEL
1/8"=1'-0"

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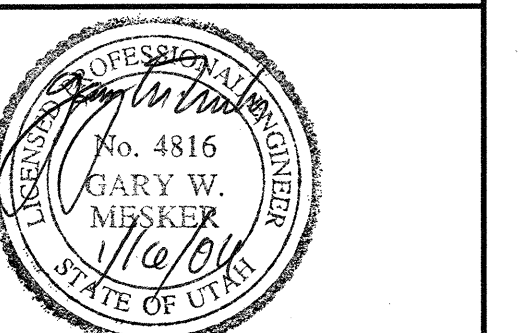
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CD 100% 7/21/04
DD Summary 7/12/04
ARCHITECT PROJECT NO.: B04-012
DFCM PROJECT NO.: 03234730

LIGHTING, POWER
& SYSTEMS PLAN
ATTIC

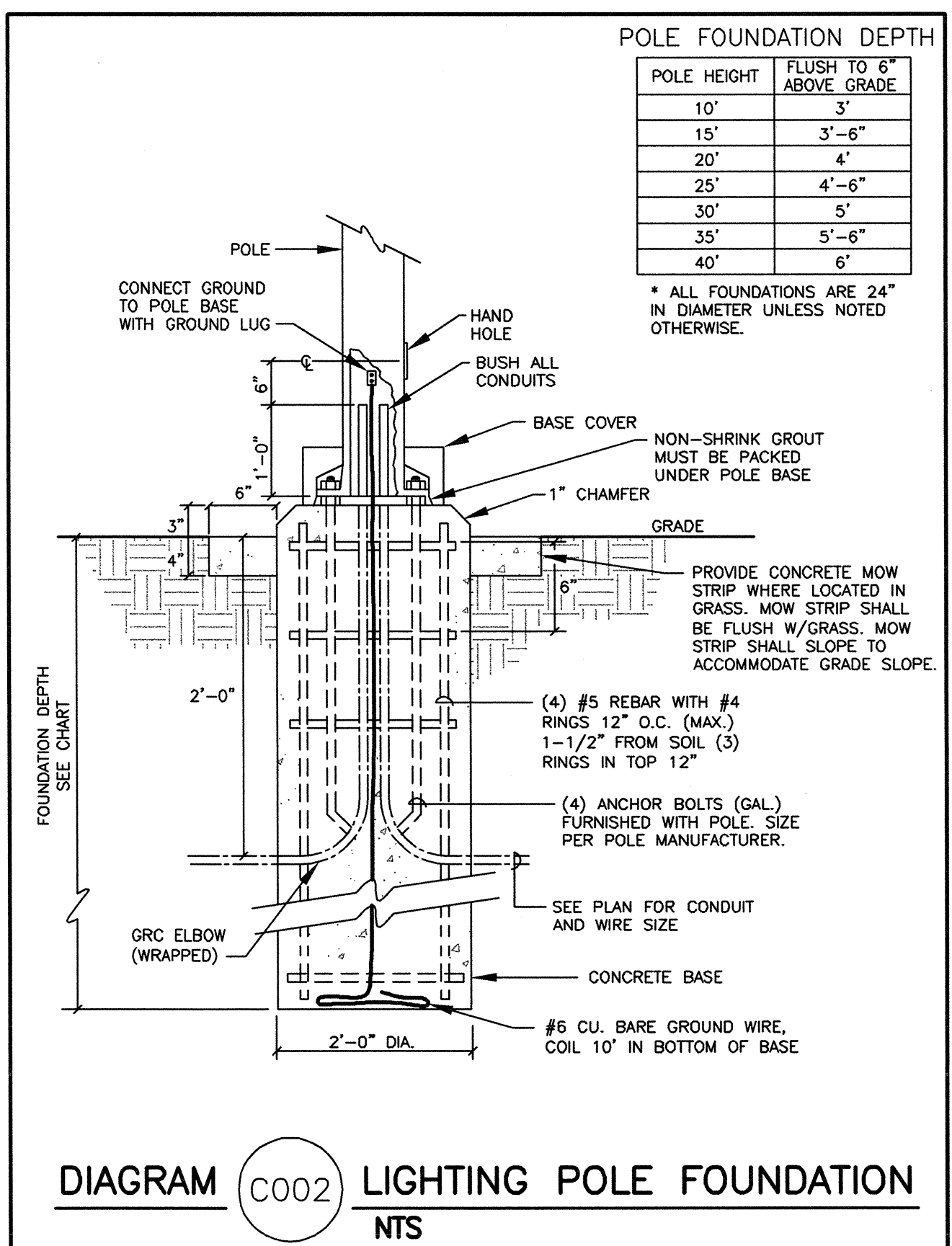
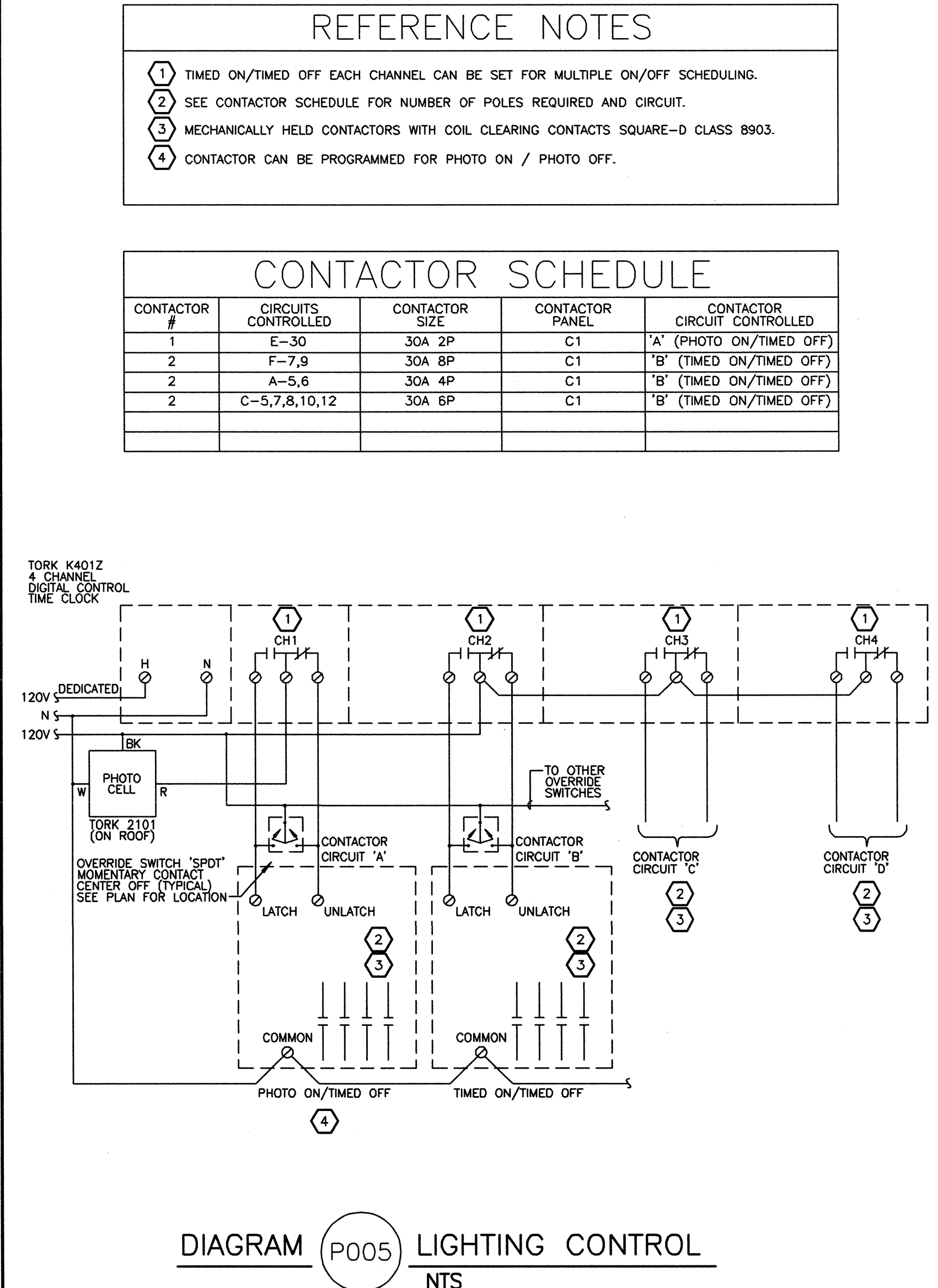
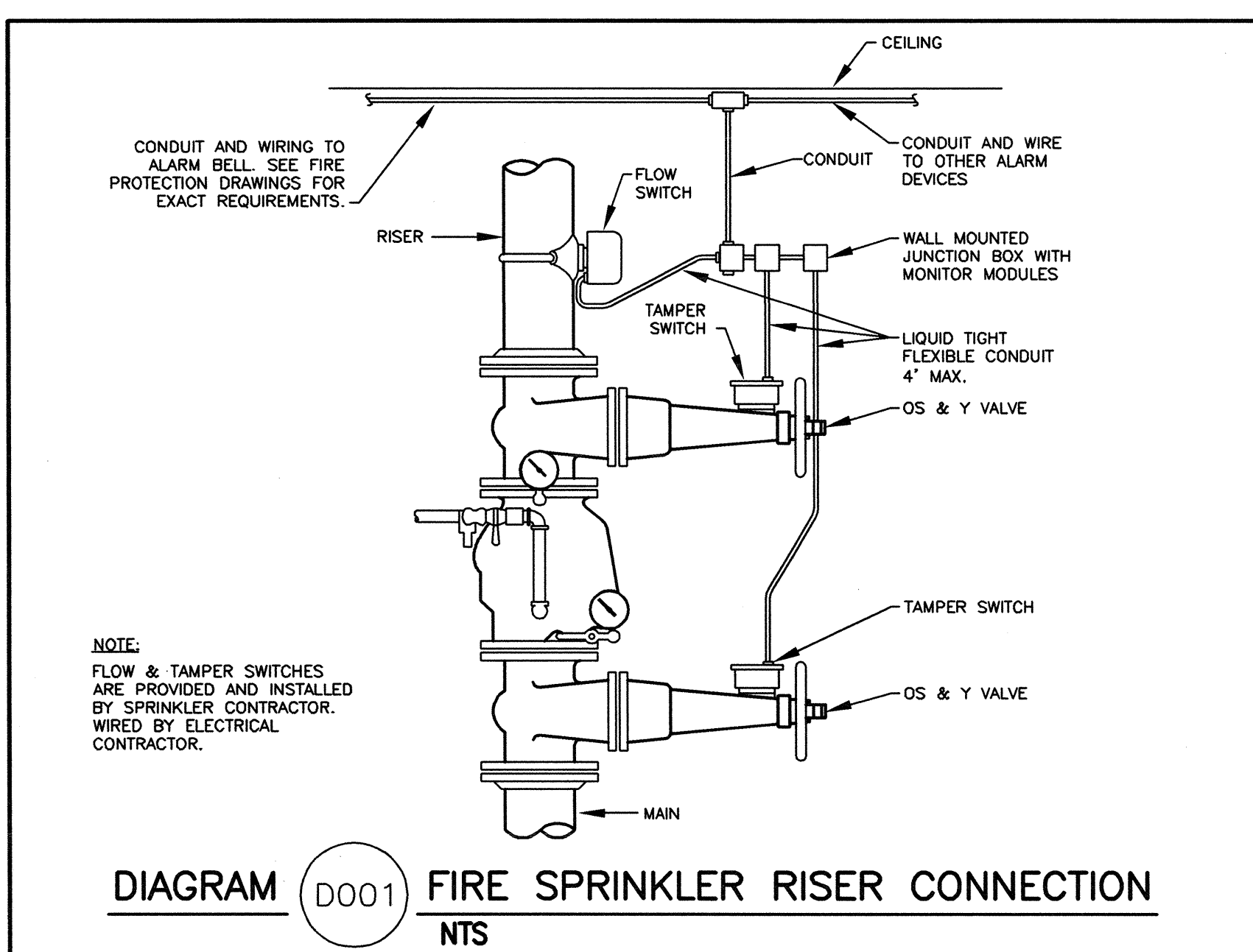
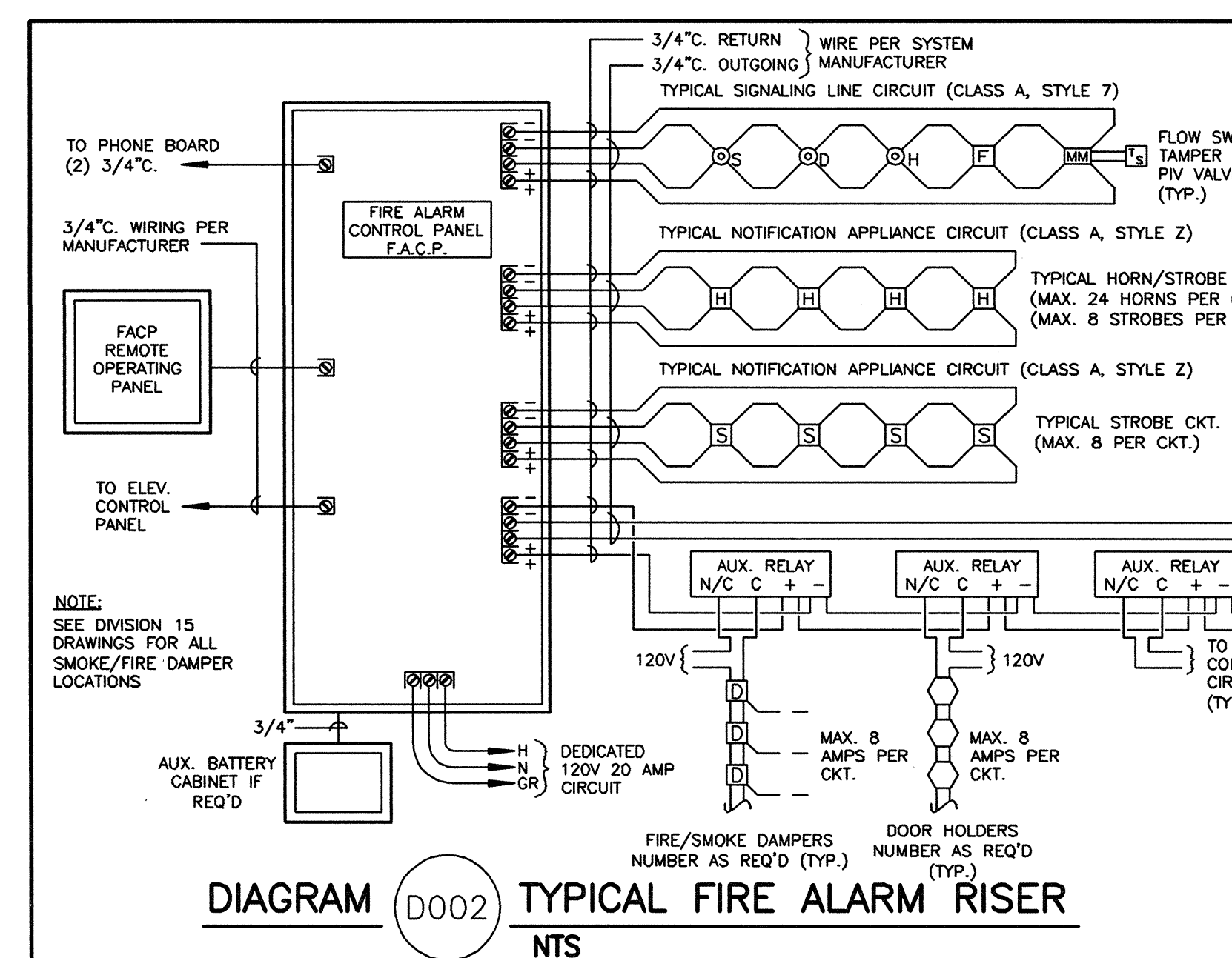
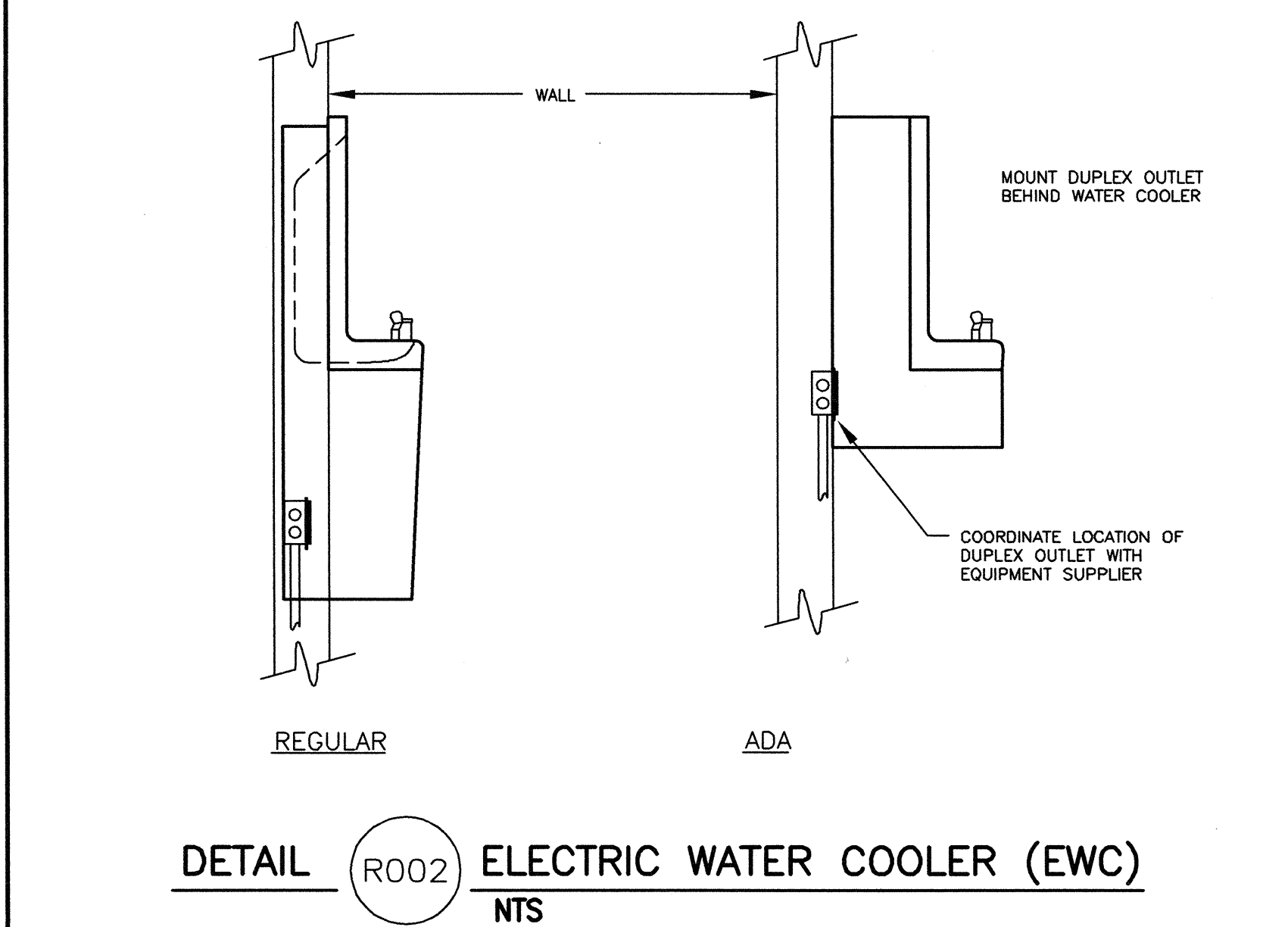
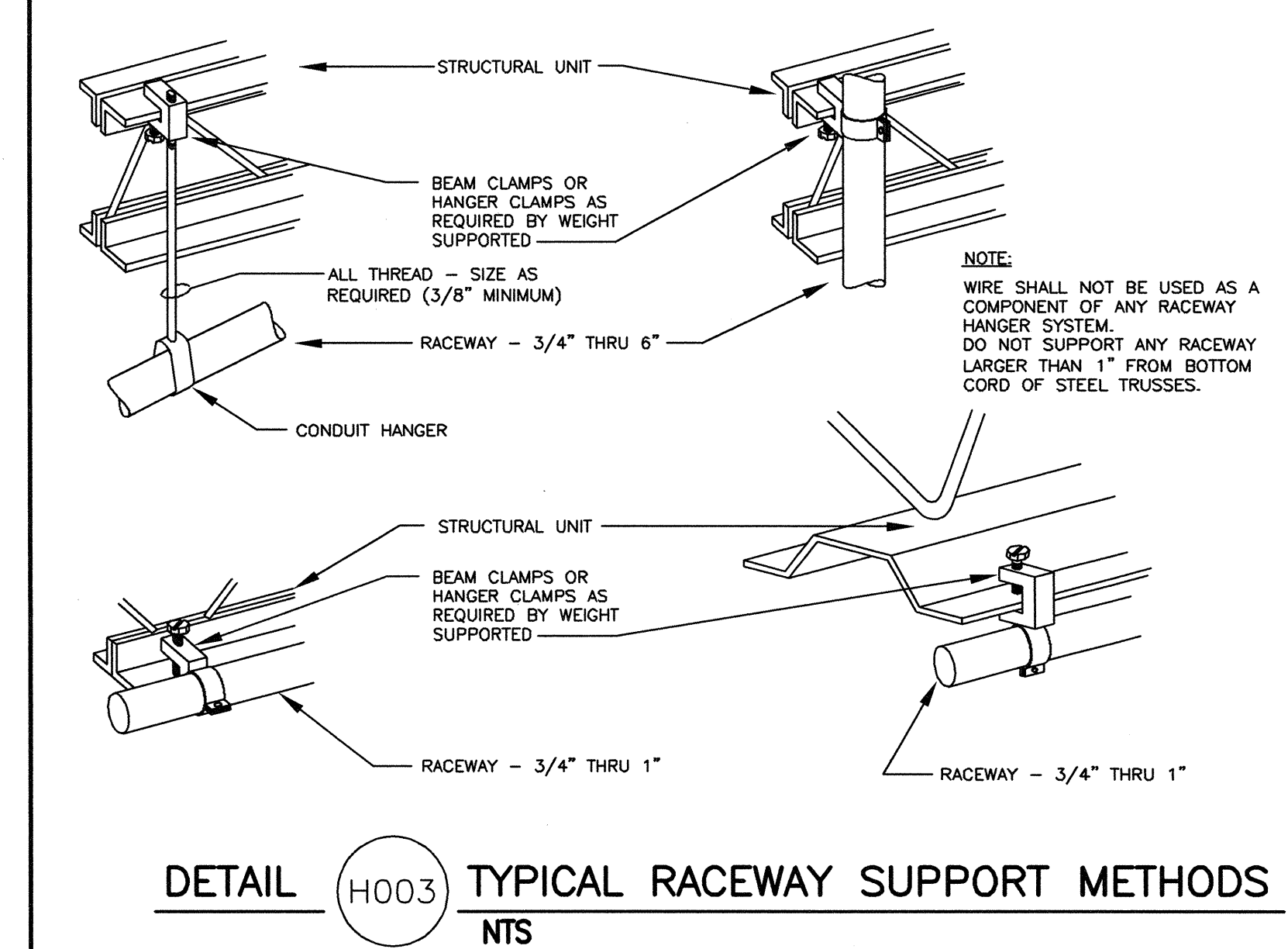
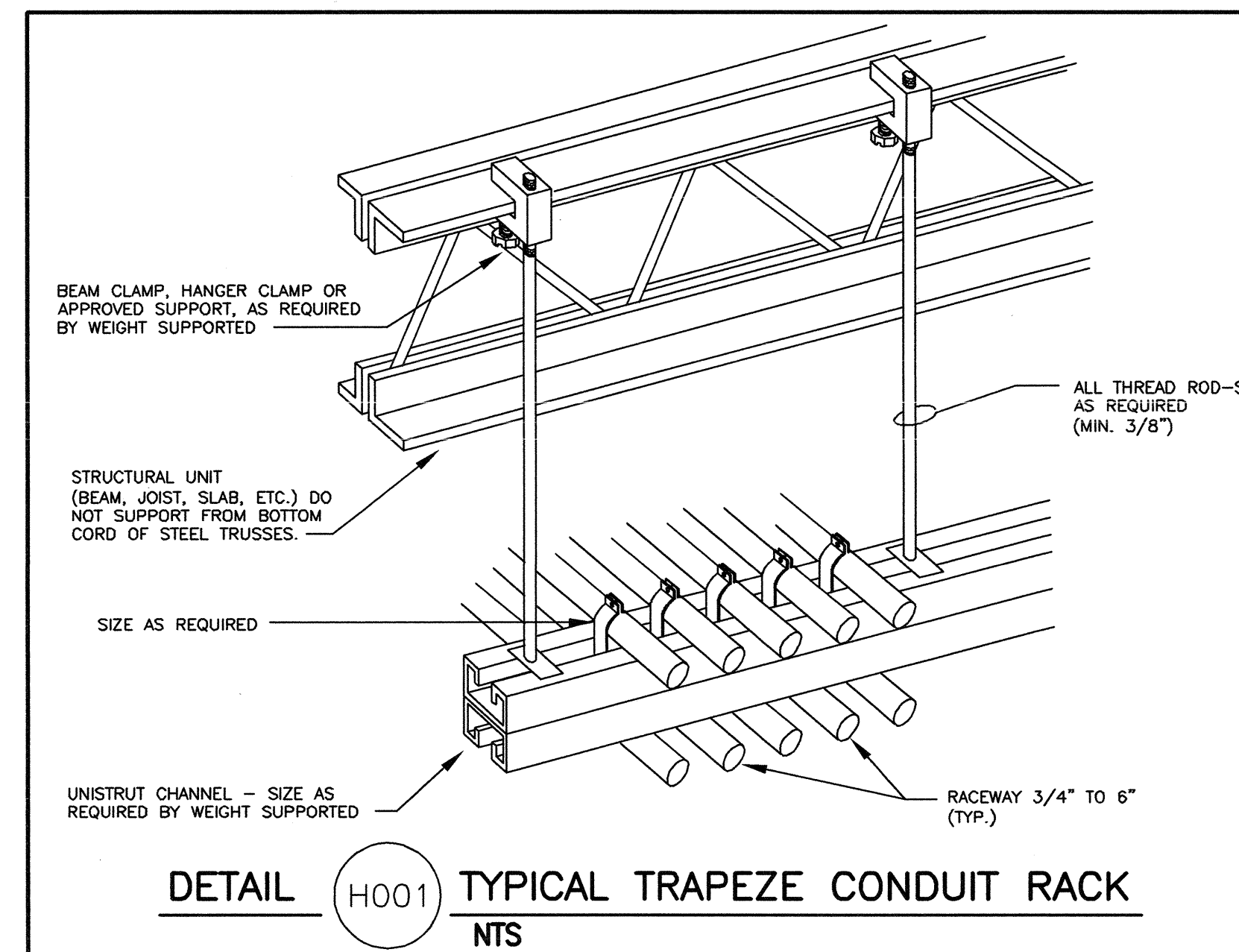
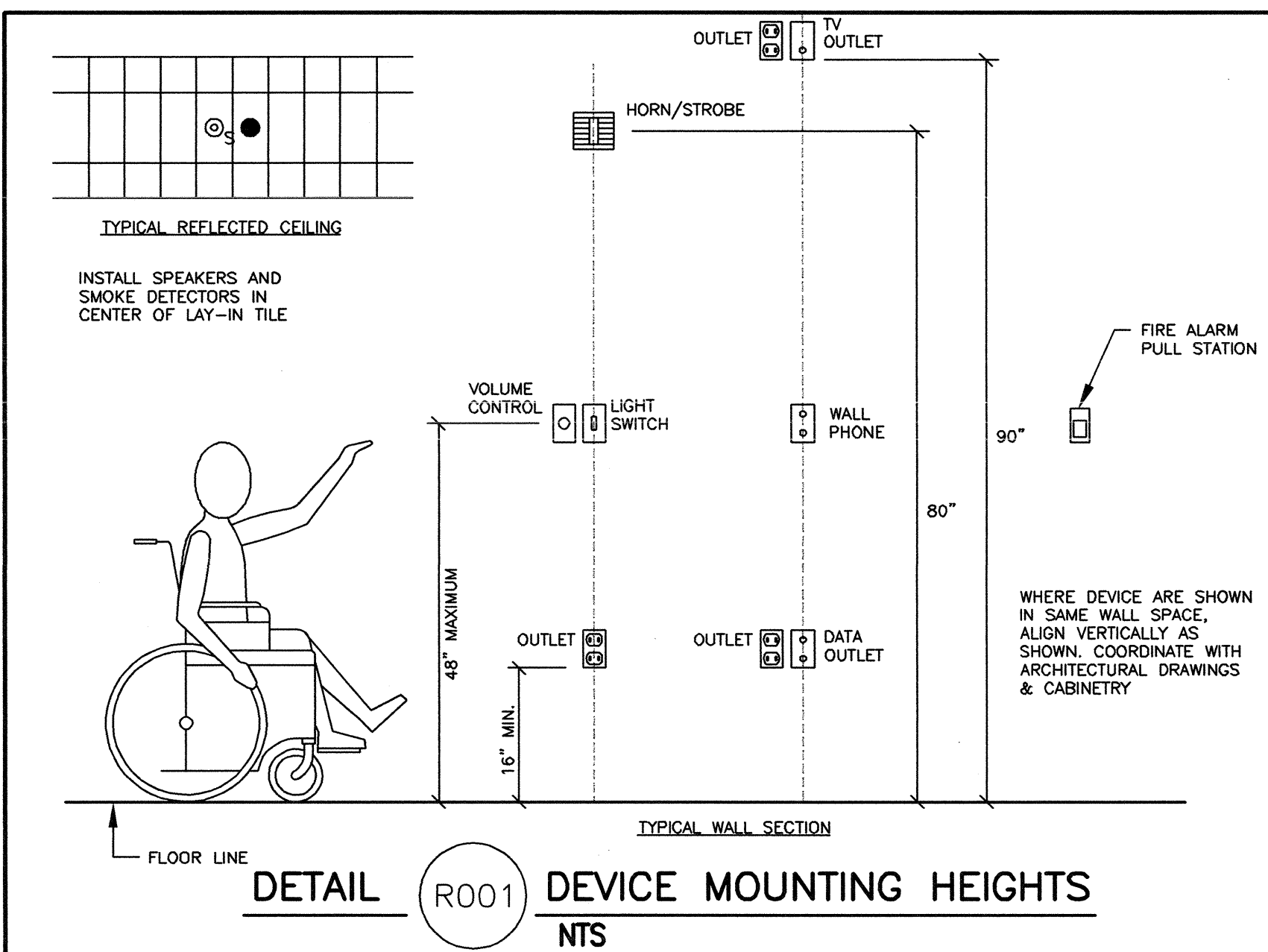
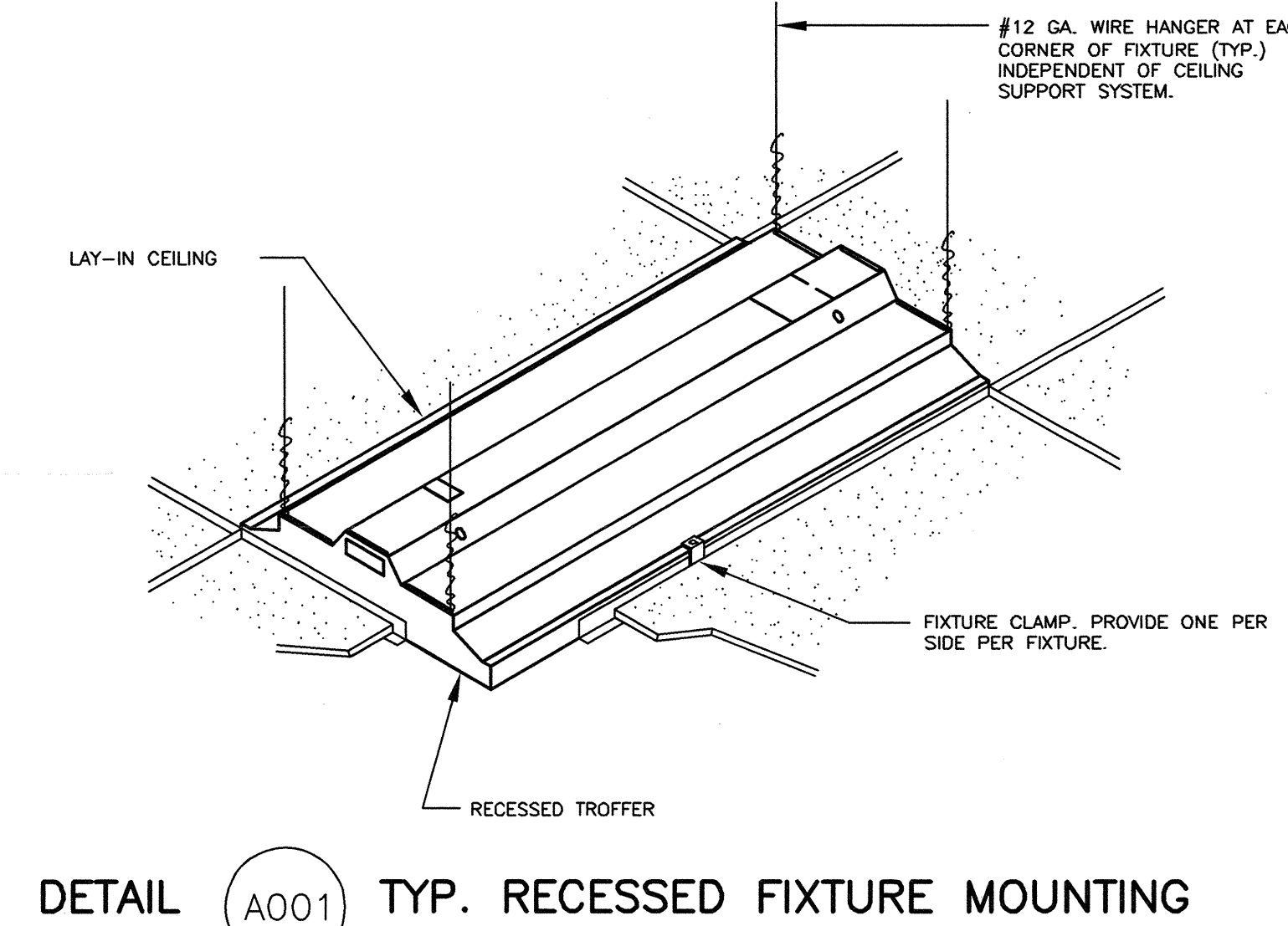
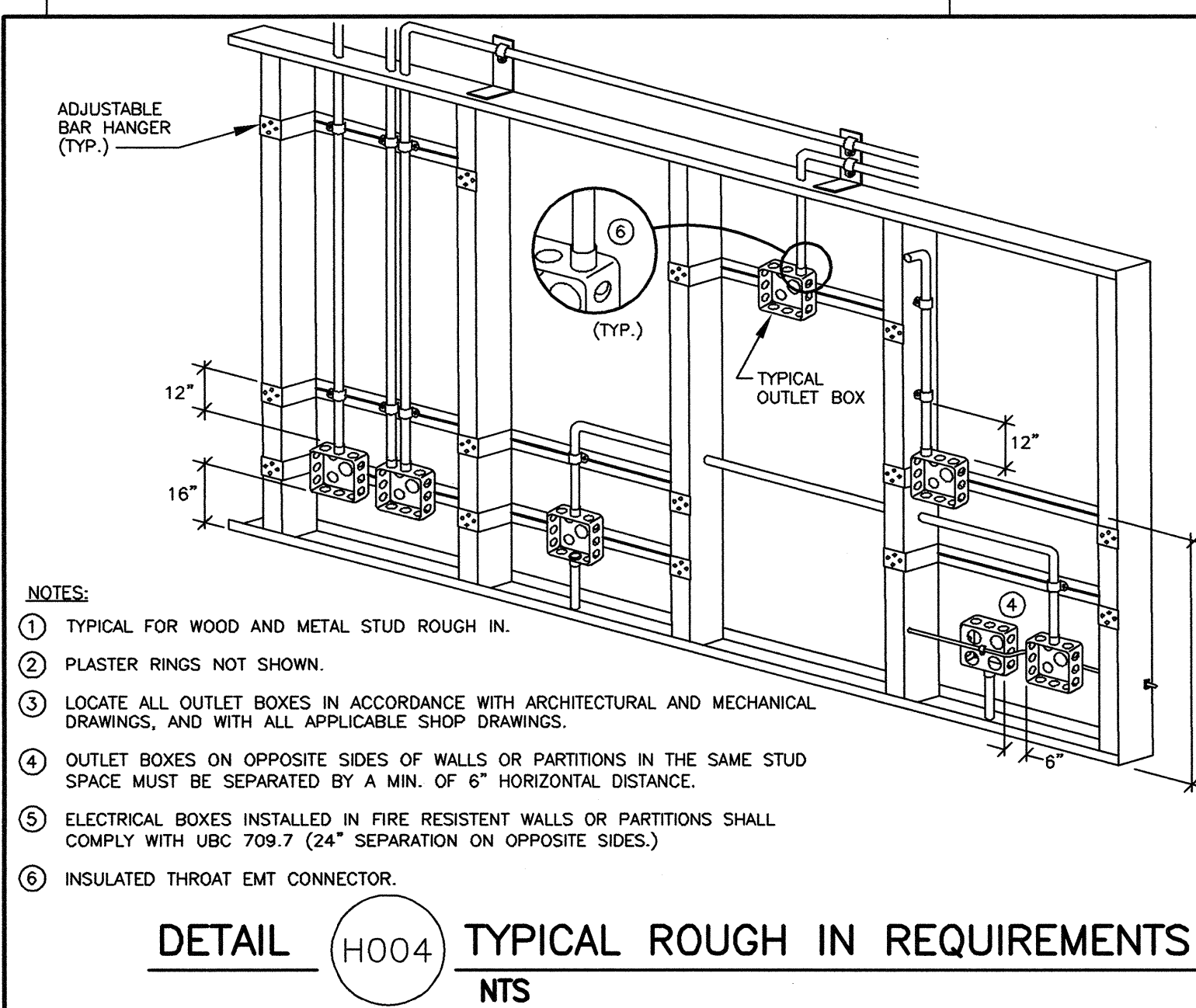
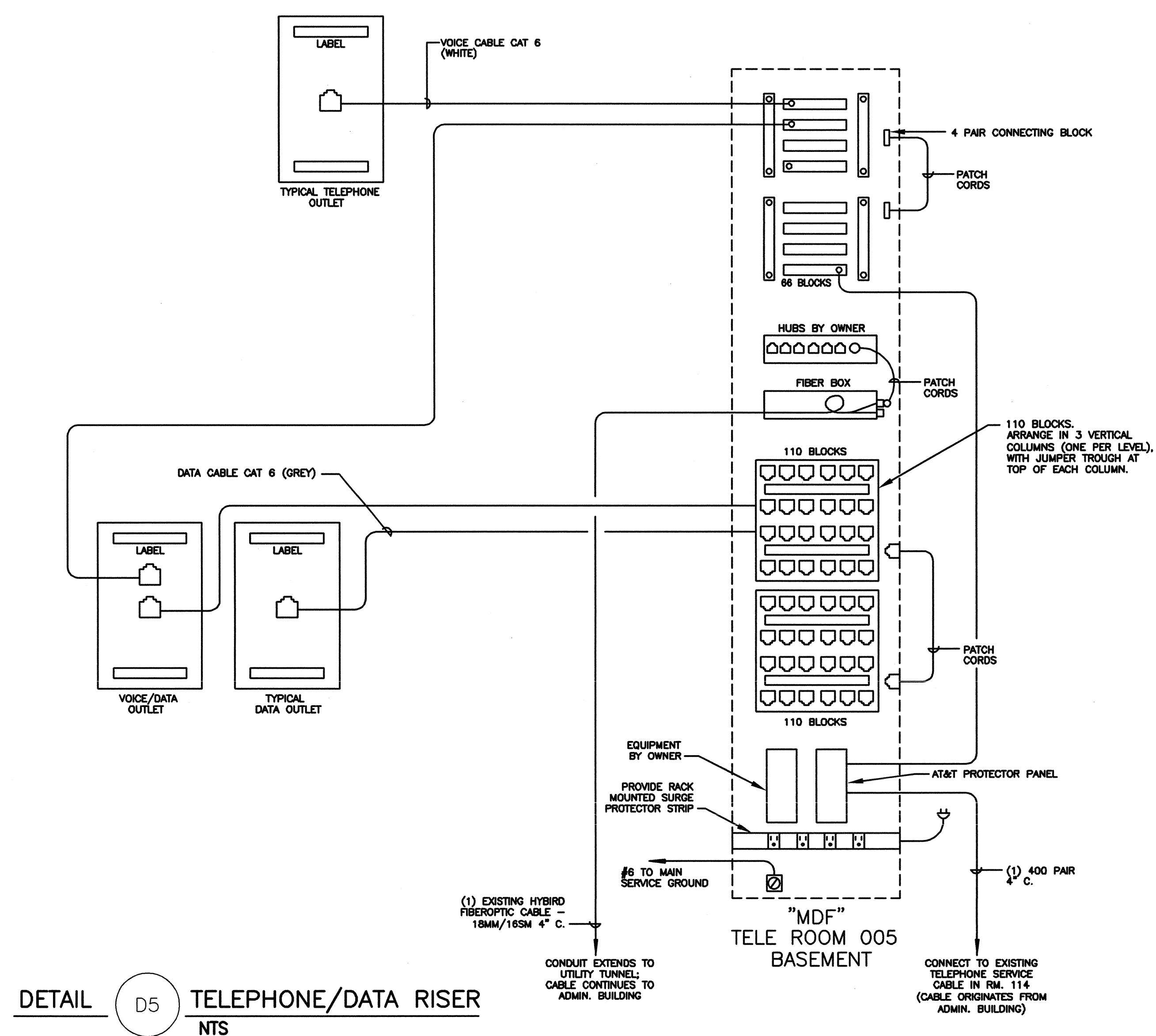
EP104

1 INTERCEPT EXISTING SERVICE CONDUITS AT TRANSFORMER AND EXTEND NEW CONDUITS TO PANEL 'MDP'.

COPPER CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS							
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	GND. COND.	
425-2	600	510	2	4	250	2-1/2"	1
425-2	600	510	2	5	250	2-1/2"	1
435-2	700	620	2	4	350	3"	1/0
440-2	700	670	2	4	400	3"	1/0
450-2	800	760	2	4	500	4"	1/0
450-2	800	760	2	5	500	4"	1/0
460-2	800	840	2	4	600	4"	1/0
435-3	900	930	3	4	350	3"	2/0
440-3	1000	1005	3	4	400	3"	2/0
440-3	1000	1005	3	5	400	3"	2/0
435-4	1200	1240	4	4	350	3"	3/0
435-4	1200	1240	4	5	350	3"	3/0
440-4	1200	1260	3	4	600	4"	3/0
440-5	1600	1675	5	4	400	3"	4/0
440-5	1600	1675	5	5	400	3"	4/0
460-6	1600	1680	4	4	600	4"	4/0
440-6	2000	2010	6	4	400	3"	250
440-6	2500	2520	6	4	600	4"	350
450-8	3000	3040	8	4	500	4"	400
460-11	4000	4180	11	4	500	4"	500
NOTES IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122. GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS							



EX101




POLE HEIGHT	FLUSH TO 6" ABOVE GRADE
10'	3'
15'	3'-6"
20'	4'
25'	4'-6"
30'	5'
35'	5'-6"
40'	6'

* ALL FOUNDATIONS ARE 24"

CONTACTOR SCHEDULE					
CONTACTOR #	CIRCUITS CONTROLLED	CONTACTOR SIZE	CONTACTOR PANEL	CONTACTOR CIRCUIT CONTROLLED	
1	E-30	30A 2P	C1	A' (PHOTO ON/TIMED OFF)	
1	F-7,9	30A 8P	C1	B' (TIMED ON/TIMED OFF)	
2	A-5,6	30A 4P	C1	B' (TIMED ON/TIMED OFF)	
2	C-5,7,8,10,12	30A 6P	C1	B' (TIMED ON/TIMED OFF)	

REFERENCE NOTES

- ① TIMED ON/TIMED OFF EACH CHANNEL CAN BE SET FOR MULTIPLE ON/OFF SCHEDULING.
- ② SEE CONTACTOR SCHEDULE FOR NUMBER OF POLES REQUIRED AND CIRCUIT.
- ③ MECHANICALLY HELD CONTACTORS WITH COIL CLEARING CONTACTS SQUARE-D CLASS 8903.
- ④ CONTACTOR CAN BE PROGRAMMED FOR PHOTO ON / PHOTO OFF.

DETAIL  ATTIC PLAN
ICE MELT SYSTEM
 $\frac{1}{16}" = 1'-0"$


DETAIL  ATTIC PLAN
ICE MELT SYSTEM
1/16" = 1'-0"

DIAGRAM  SIMPLEX CLOCK CONTROL
NTS

DIAGRAM D5 TELEPHONE/DATA RISER
NTS

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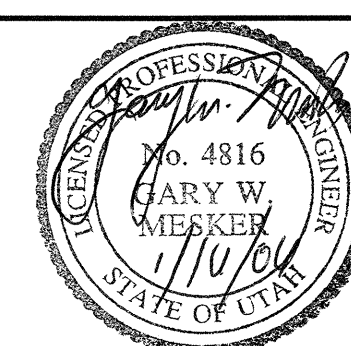
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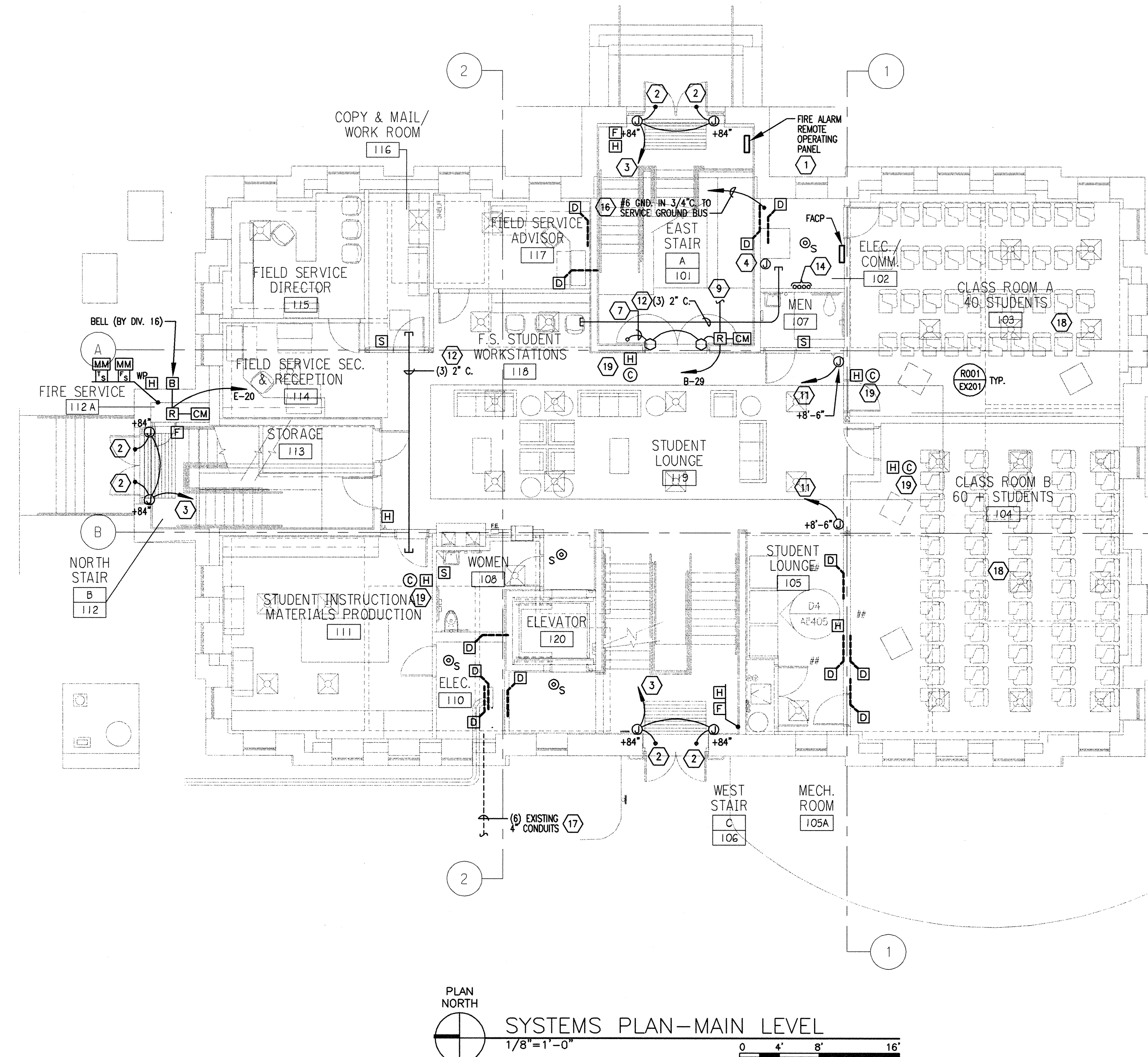
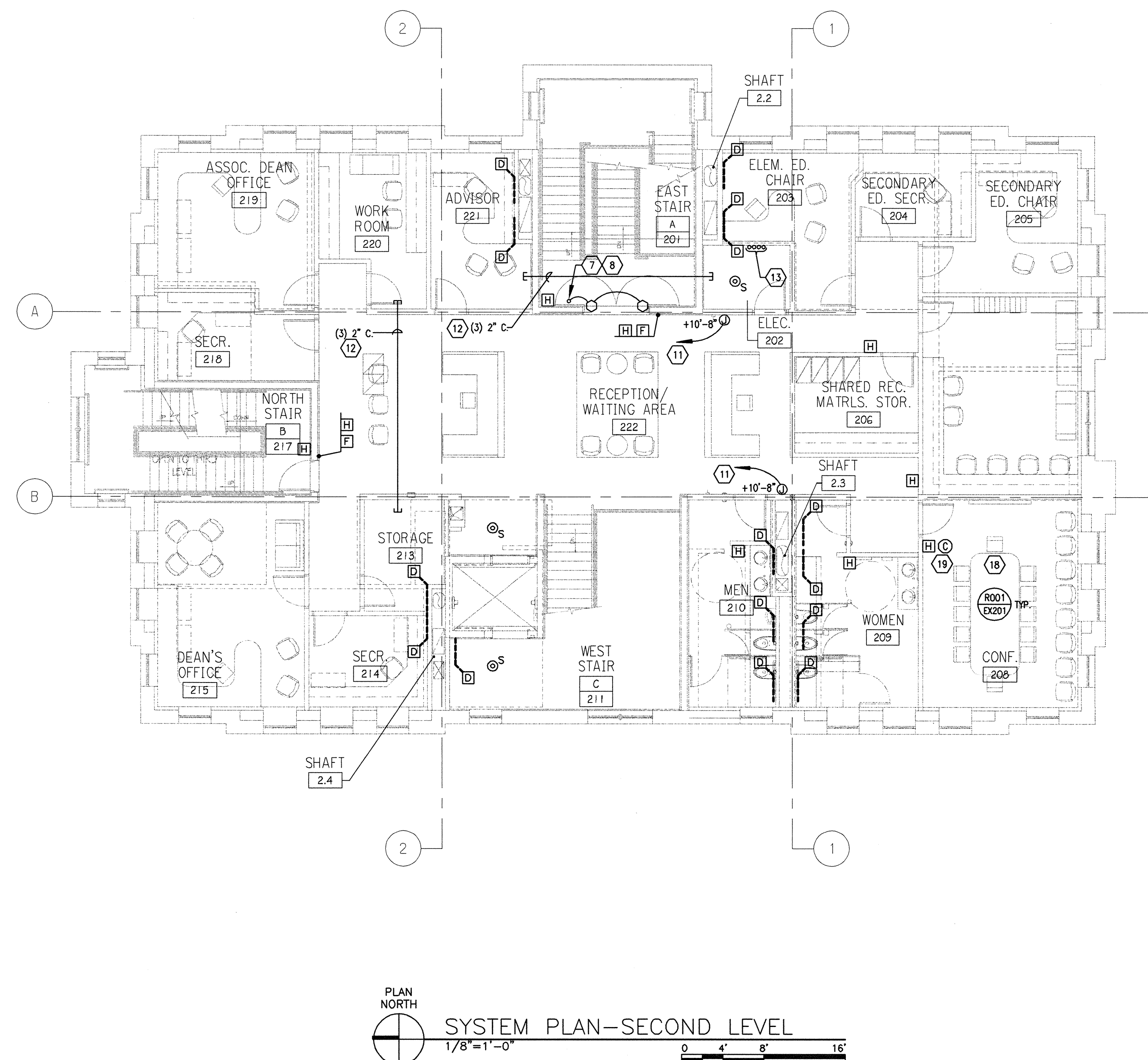
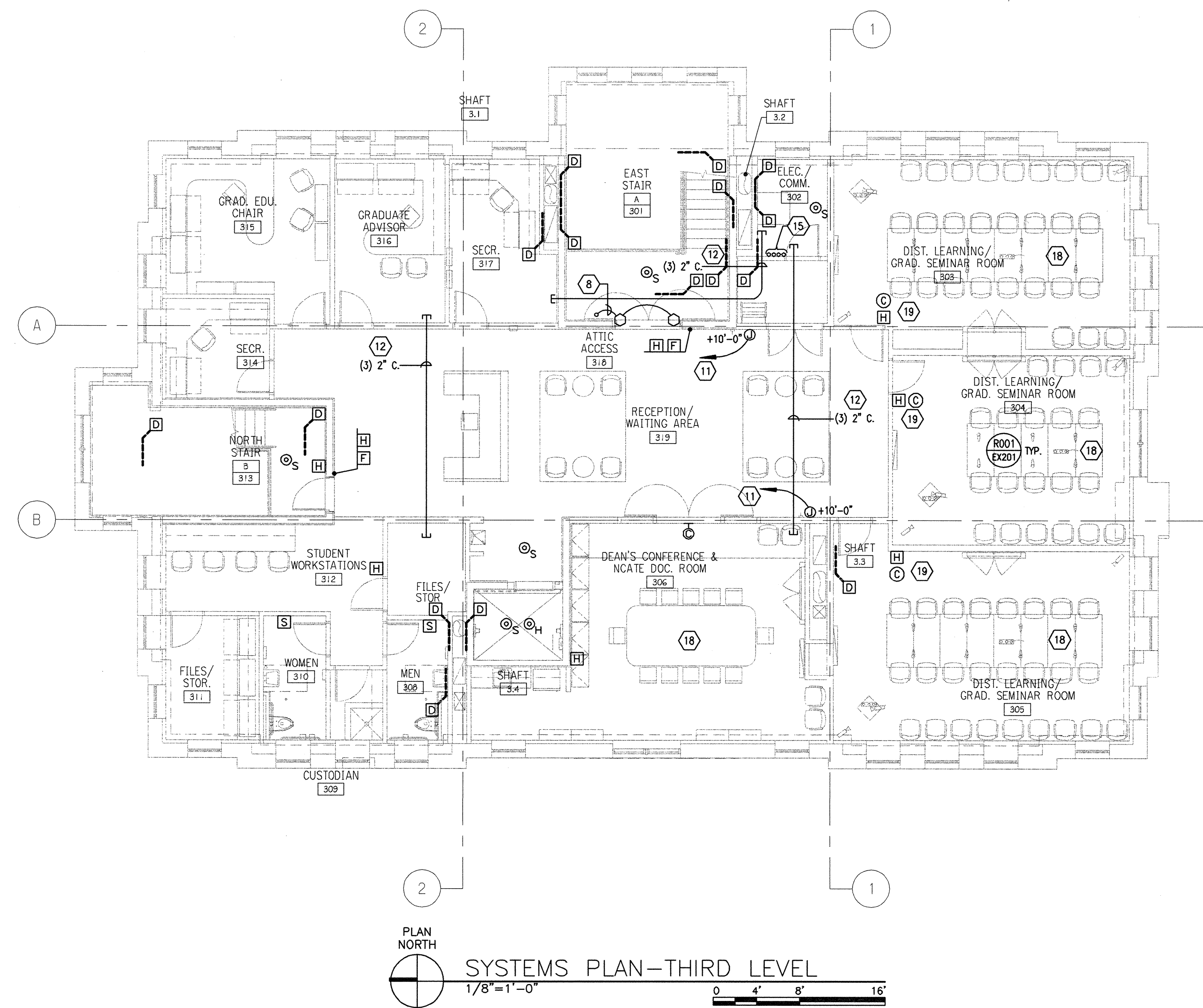
CD	100%	7/21/04
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DD Submission	7/12/04

DFCM PROJECT NO.: 03234730

ELECTRICAL DETAILS

EX202



GENERAL NOTES

- SEE SHEET EP100 FOR FIRE ALARM DEVICES ON BASEMENT LEVEL.

SHEET KEYNOTES

- FIRE ALARM REMOTE OPERATING PANEL.
- JUNCTION BOX FLUSH IN WALL ABOVE AND TO THE SIDE OF DOOR WITH 3/8" FLEX INTO TOP OF DOOR FRAME FOR FUTURE SECURITY DOOR CONTACT.
- 1" CONDUIT TO ELEC/COMM ROOM 102 SECURITY JUNCTION BOX.
- 12"x12"x4" JUNCTION BOX FOR SECURITY.
- NOT USED.
- CONDUIT UP TO THIRD LEVEL.
- UP TO NEXT LEVEL.
- DOWN TO PREVIOUS LEVEL.
- PROVIDE FIRE ALARM CONTROL MODULE AND FIRE ALARM RELAY FOR DOOR HOLDER CONTROL. PROVIDE ALL REQUIRED CONDUIT, WIRING, PROGRAMMING, ETC. TO MAKE SYSTEM OPERATIONAL.
- PROVIDE FIRE ALARM CONTROL MODULE AND FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER CONTROL. PROVIDE ALL REQUIRED CONDUIT, WIRING, PROGRAMMING, ETC. TO MAKE SYSTEM OPERATIONAL. PROVIDE JUNCTION BOX ABOVE CEILING FOR FIRE/SMOKE DAMPER POWER DAMPERS. LOCATION TO BE COORDINATED.
- PROVIDE JUNCTION BOX IN WALL FOR FUTURE CCTV CAMERA AND RUN 3/4" CONDUIT TO ELEC/COMM RM. 102.
- EXTEND CONDUITS BETWEEN ACCESSIBLE CEILING SPACES.
- (4) 3" CONDUITS (FOR VOICE/DATA BACKBONE) DOWN TO MAIN LEVEL ROOM 102. CONDUITS SHALL OFFSET IN JOIST SPACE HORIZONTALLY AS REQUIRED.
- VOICE/DATA SERVICE CONDUITS FROM TUNNEL, SEE SHEET EP100.
- (4) 3" CONDUITS (FOR VOICE/DATA BACKBONE) DOWN TO SECOND LEVEL ROOM 202. CONDUITS SHALL OFFSET IN JOIST SPACE.
- CONNECT TO VOICE AND DATA DISTRIBUTION FRAMES AND BOND TO RACEWAYS.
- EXISTING CONDUITS ARE STUBBED INTO WEST WALL OF ROOM 114 AND ARE TO REMAIN. PROTECT ANY EXISTING SERVICE CABLES WHICH ARE TO REMAIN.
- SEE SHEET EY102 FOR AV AND EDNET SYSTEMS IN THIS ROOM.
- CLOCK-WALL MOUNTED. REFER TO DETAIL AND SPECIFICATIONS.

COOPER
ROBERTS
SIMONSEN
ARCHITECTURE

crsa

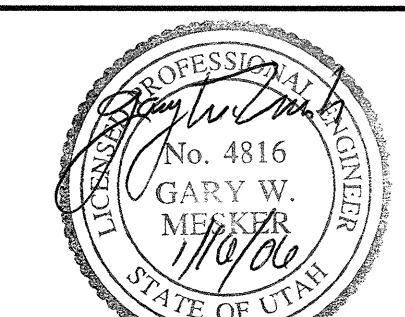
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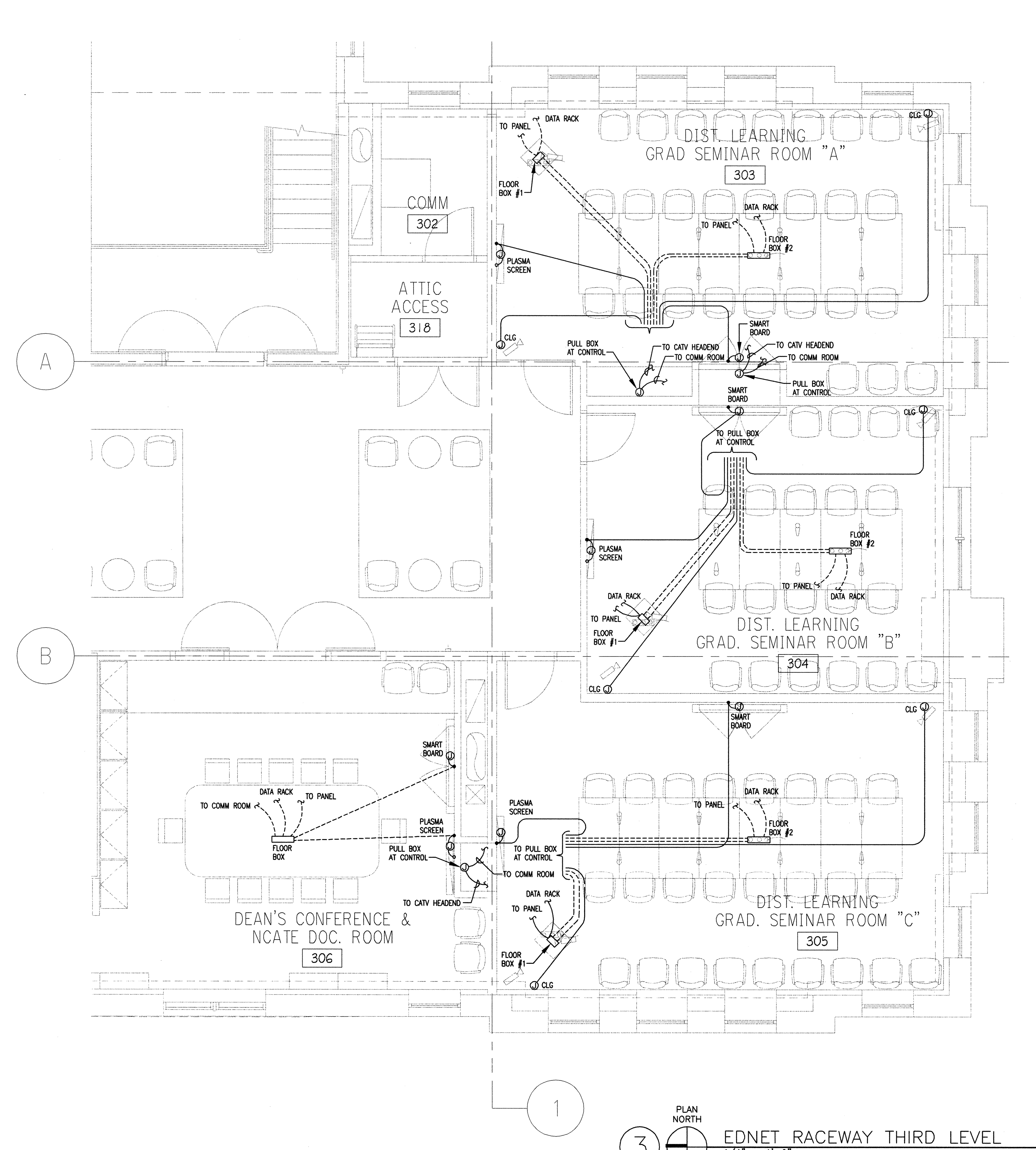
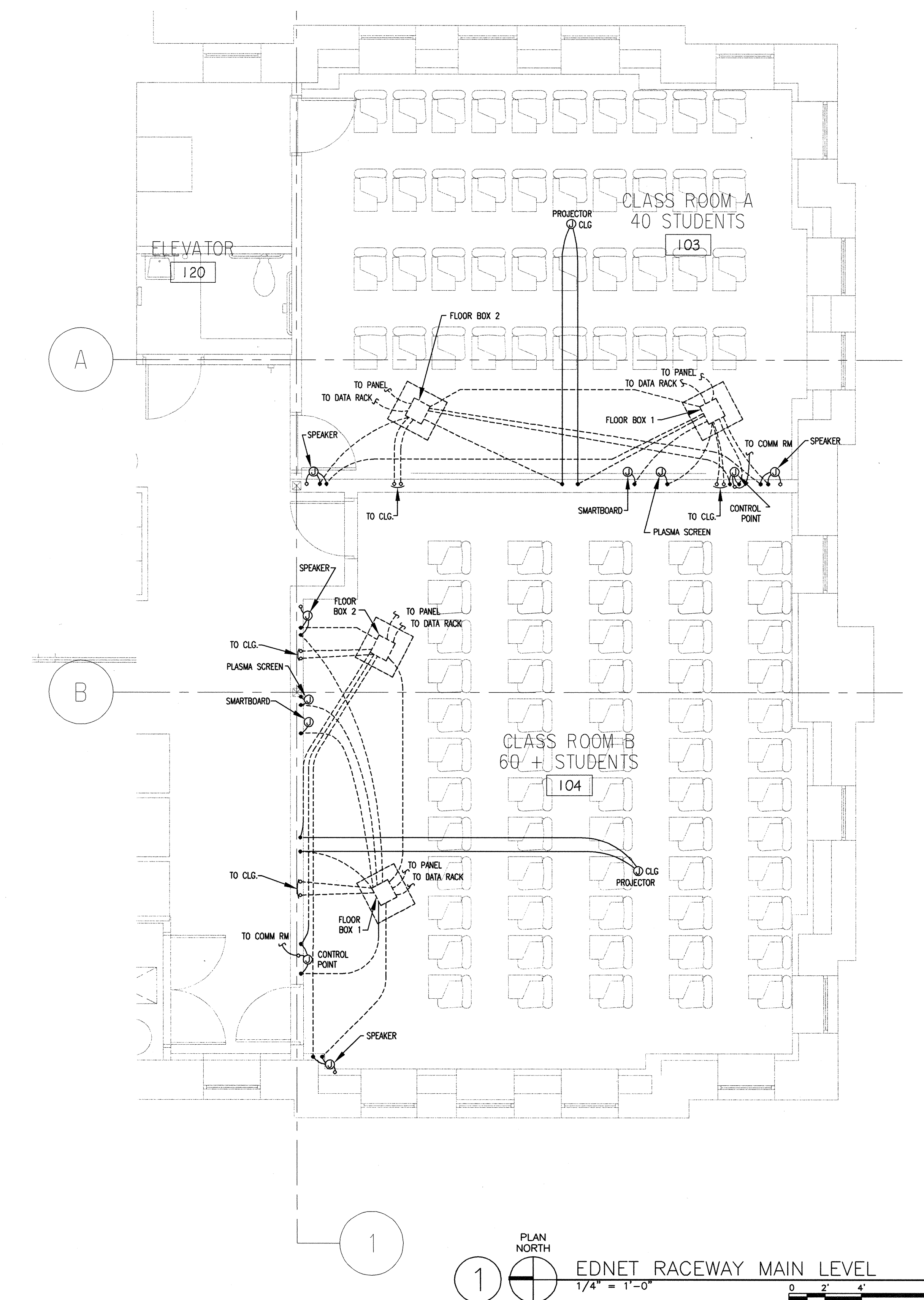
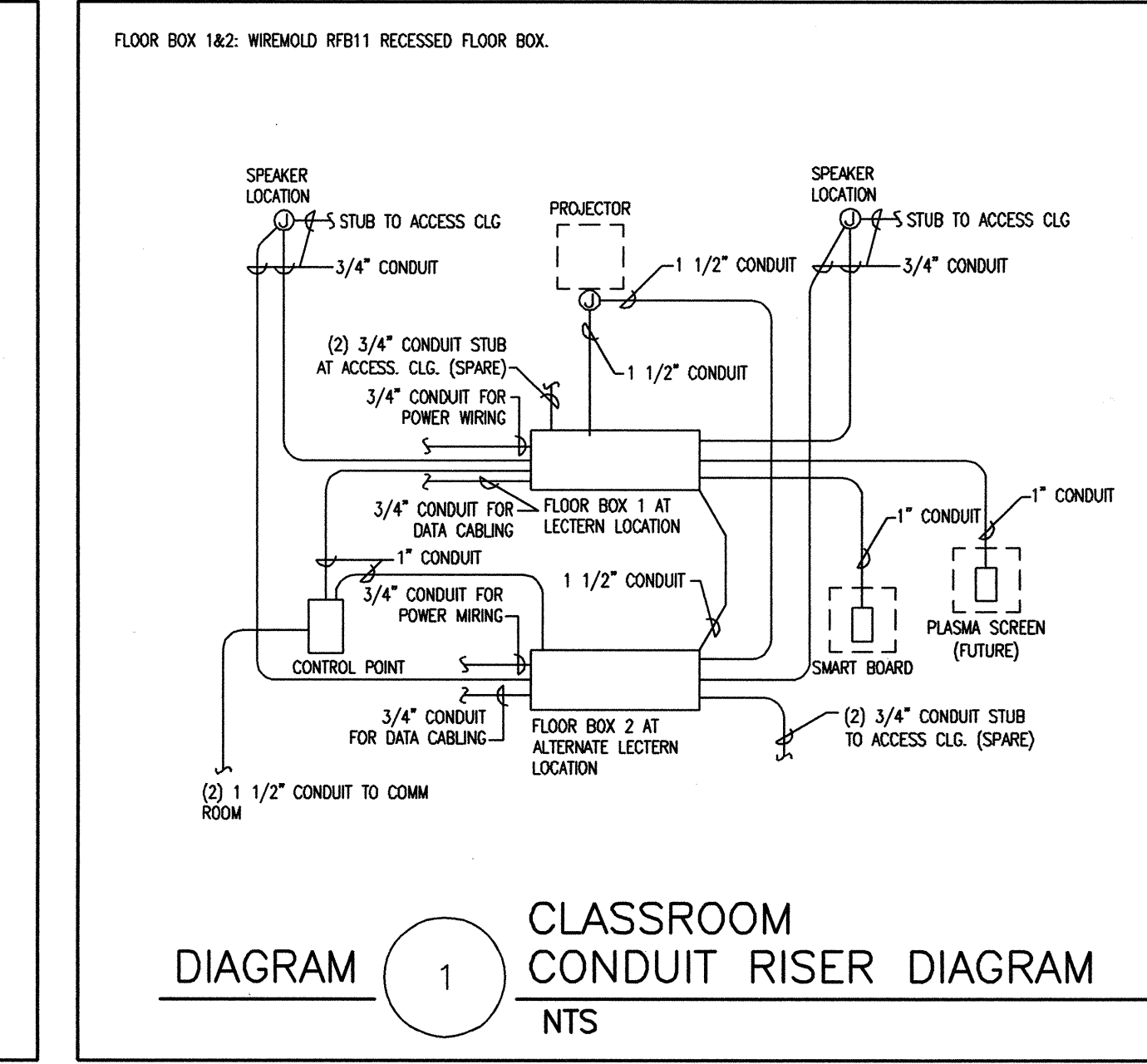
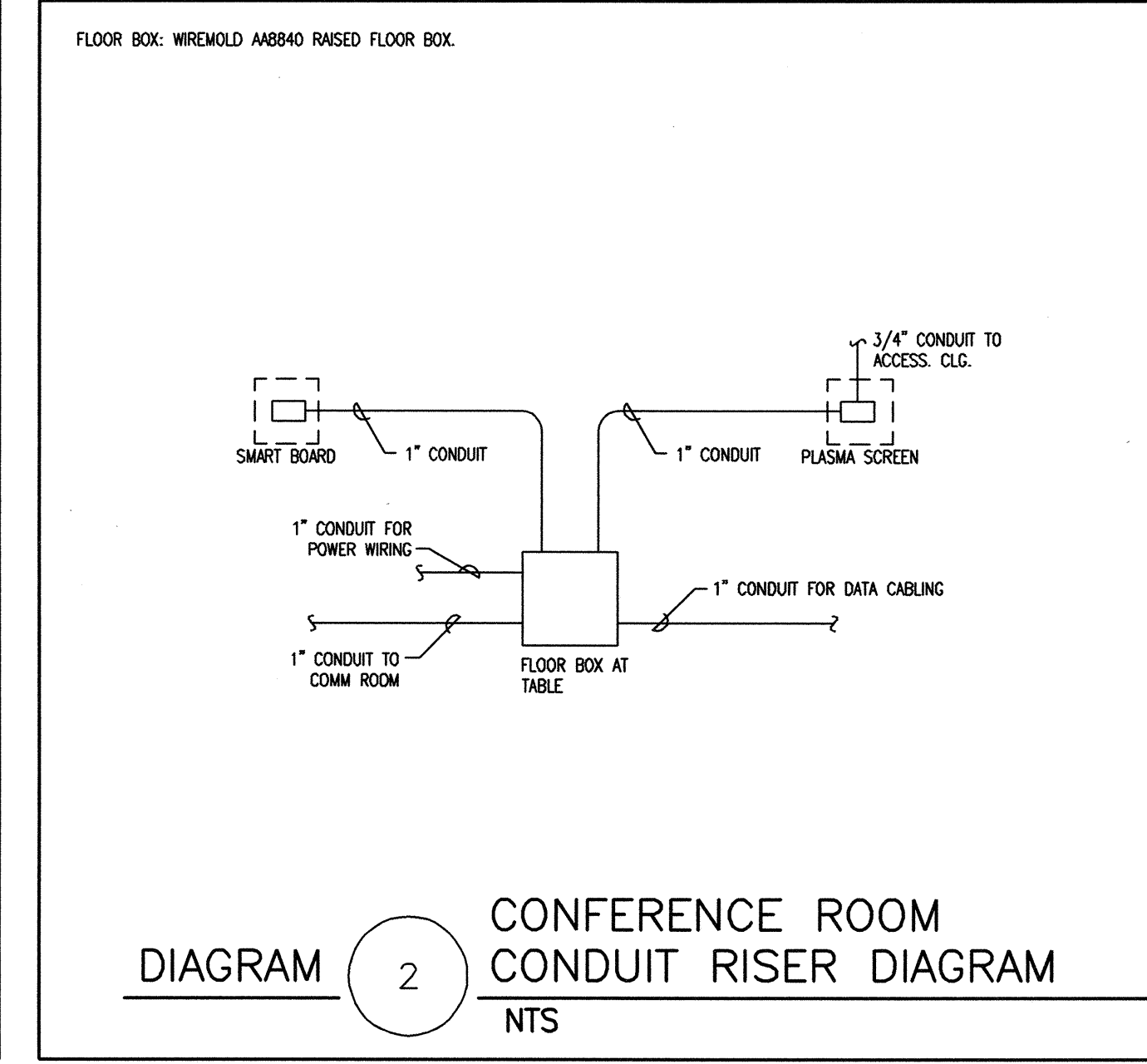
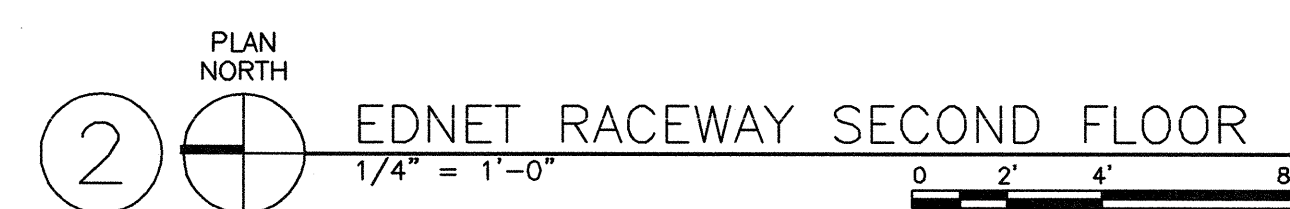
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CD 100% 7/21/04
DD Submittal 7/12/04

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SYSTEMS PLAN
MAIN, SECOND
& THIRD LEVEL

EY101



EY102